

# Solar for everybody

Product brochure







# The power of the sun for the future of our planet

Photo by Nathan Dumiao

# Solar for everybody



Photo by Leon Biss

## The future is solar for everybody

At Solplanet, we are driven by a simple idea: solar for everybody. We strive to create the best possible experience for distributors, installers and end users. That's why our products are easy-to-install, safe & reliable and user-friendly.

Solplanet photovoltaic inverters are manufactured in compliance with international high-quality standards. Our annual production capacity exceeds 32GW. So, chances are we can meet your demand.

## You can depend on Solplanet

Solplanet is a brand of AISWEI, which is formerly known as SMA's Chinese subsidiary and has successfully been manufacturing high-quality and reliable products for renowned brands like SMA and Zeyversolar.

Today, AISWEI is a leading R&D and manufacturing company focusing on clean energy. Headquartered in Shanghai, China, with three R&D centers, one manufacturing base, and offices in Asia, Europe, South America, Africa, and Oceania, AISWEI and Solplanet serve customers in many countries and regions across the globe.

## Solplanet makes things easy

Solplanet products are easy-to-install, safe & reliable and user-friendly. We offer a variety of quality products with industry leading warranties that you can depend on: single phase inverters, three phase inverters and connect & monitoring products. In addition we also offer our new hybrid inverters.



# Easy-to-install Safe & Reliable User-friendly

We strive to create the best possible experience for distributors, installers and end users. That's why our products are easy-to-install, safe & reliable and user-friendly.



## Easy-to-install

- Quick & easy-to-install with standard tools
- Quick setup and commissioning with Solplanet apps
- Compact wall mount design



## Safe & reliable

- International quality standards
- Integrated DC switch
- IP rated design for outdoor use



## User-friendly

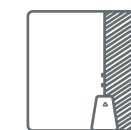
- User friendly app interface
- Online monitoring via Wi-Fi and Solplanet apps
- Award winning inverter design



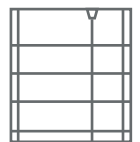
## Our product range:

We offer single phase and three phase inverters alongside our monitoring products:

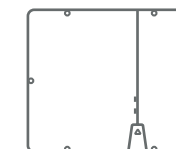
Single Phase  
Inverters  
Page 8



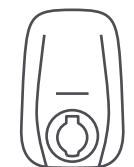
Energy Storage  
Batteries  
Page 60



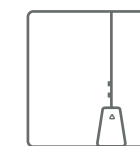
Three Phase  
Inverters  
Page 20



Smart EV Charger  
Page 72



Hybrid Inverters  
Page 42



Connect & Monitor  
Page 76



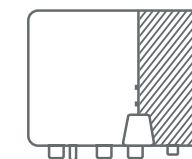
# Single phase inverters



Perfect for home  
& small business  
applications

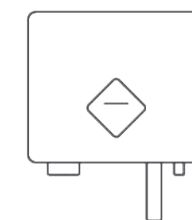
## ASW S-S2 SERIES

ASW600S-S2  
ASW800S-S2



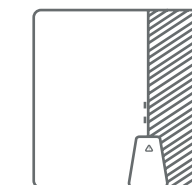
## ASW S-S SERIES

ASW1000S-S  
ASW1500S-S  
ASW2000S-S  
ASW3000S-S



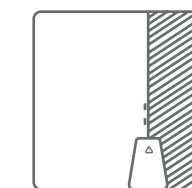
## ASW S SERIES

ASW6000-S  
ASW8000-S  
ASW10000-S



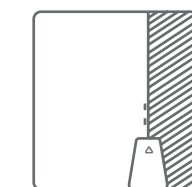
## ASW S-G2 SERIES

ASW1000-S-G2  
ASW1500-S-G2  
ASW2000-S-G2  
ASW2500-S-G2



## ASW S-G2 SERIES

ASW3000-S-G2  
ASW3680-S-G2  
ASW4000-S-G2  
ASW5000-S-G2  
ASW6000-S-G2



# ASW S-S2 Series



Models:  
ASW600S-S2  
ASW800S-S2



### Easy-to-install

- Suitable for PV balcony systems
- Quick and easy to install with basic tools
- Quick setup and commissioning with the Solplanet app
- A4 size, compact and super light weight at 3.9 kg



### Safe & reliable

- 250 % PV array oversizing for higher yields
- Integrated DC switch
- Higher yield due to very low 35 V start-up voltage
- IP66 rated design for outdoor use



### User-friendly

- 16 A input current, ideal for high-power PV modules
- 24/7 PV plant monitoring via the Solplanet app
- Noise level < 20dB
- ShadeSol shadow management
- Smart meter interface for zero export applications

### Technical Datasheet

|                         |                                                                                               | ASW600S-S2                                      | ASW800S-S2   |
|-------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|--------------|
| Input (DC)              | Max. PV array power                                                                           | 1500 Wp STC                                     | 2000 Wp STC  |
|                         | Max. input voltage                                                                            | 500V                                            |              |
|                         | MPP voltage range                                                                             | 35V to 420 V / 360 V                            |              |
|                         | Full load MPP voltage range                                                                   | 65 ....400V                                     | 65 ....400 V |
|                         | Min. input voltage                                                                            | 30 V                                            |              |
|                         | Initial. feed in voltage                                                                      | 35 V                                            |              |
|                         | Max. operating input current                                                                  | 16 A                                            |              |
|                         | Max. short circuit current                                                                    | 20 A                                            |              |
|                         | No. of independent MPPT inputs / strings per MPPT input                                       | 1 / 1                                           |              |
| Output (AC)             | Rated active power                                                                            | 600 W                                           | 800 W        |
|                         | Rated apparent power                                                                          | 600 VA                                          | 800 VA       |
|                         | Max. apparent power                                                                           | 600 VA                                          | 800 VA       |
|                         | AC nominal voltage                                                                            | 230 V                                           |              |
|                         | AC voltage range                                                                              | 180 V to 260 V                                  |              |
|                         | AC grid frequency / range                                                                     | 50 Hz / 45 Hz to 55 Hz                          |              |
|                         | Rated output current (A)                                                                      | 2.6 A                                           | 3.5 A        |
|                         | Max. output current (A)                                                                       | 2.6 A                                           | 3.5 A        |
|                         | Adjustable power factor range                                                                 | 0.8 leading to 0.8 lagging                      |              |
| Efficiency & Protection | Feed-in phases                                                                                | 1                                               |              |
|                         | Harmonic distortion (THD) at rated output                                                     | < 3 %                                           |              |
|                         | Max. efficiency / European efficiency                                                         | 97.2 % / 96.5 %                                 |              |
|                         | DC switch                                                                                     | ●                                               |              |
|                         | Ground fault monitoring / grid monitoring                                                     | ● / ●                                           |              |
|                         | DC reverse polarity protection / AC short circuit protection                                  | ● / ●                                           |              |
|                         | All-pole-sensitive residual-current monitoring unit                                           | ● / ●                                           |              |
|                         | Surge protection                                                                              | ● / Type III                                    |              |
|                         | Anti-Islanding protection                                                                     | ●                                               |              |
| General data            | Protection class (according to IEC 62109-1) / overvoltage category (according to IEC 62109-1) | I / AC : III ; DC : II                          |              |
|                         | Dimensions (W / H / D)                                                                        | 288 / 218 / 97mm                                |              |
|                         | Weight                                                                                        | 3.9kg                                           |              |
|                         | Operating temperature range                                                                   | -25 °C...+60 °C                                 |              |
|                         | Self-consumption (at night)                                                                   | < 1 W                                           |              |
|                         | Topology                                                                                      | Non-isolated                                    |              |
|                         | Cooling concept                                                                               | Natural convection                              |              |
|                         | Degree of protection (according to IEC 60529)                                                 | IP66                                            |              |
|                         | Climatic category (according to IEC 60721-3-4)                                                | 4K4H                                            |              |
| Features                | Max. permissible value for relative humidity (non-condensing)                                 | 100%                                            |              |
|                         | Max. operating altitude                                                                       | 3000 m                                          |              |
|                         | DC connection                                                                                 | Plug-in connector                               |              |
|                         | AC connection                                                                                 | Plug-in connector                               |              |
|                         | Mounting type                                                                                 | Wall-mount bracket                              |              |
|                         | LED indicators (Status / Fault / Communication)                                               | ●                                               |              |
|                         | 24/7 monitoring                                                                               | ●                                               |              |
|                         | Communication interface                                                                       | ●/●/●/○<br>(RS485 /Wi-Fi/ LAN /4G)              |              |
|                         | Certificates and approvals (more available on request)                                        | CE / IEC62109-1/IEC62109-2 / VDE-AR-N 4105:2018 |              |

● standard features   ○ optional features   - not available

# ASW S-S Series



Models:  
ASW1000S-S  
ASW1500S-S  
ASW2000S-S  
ASW3000S-S



### Easy-to-install

- Quick & easy-to-install with basic tools
- Quick setup and commissioning with Solplanet apps
- Compact wall mount design



### Safe & reliable

- International quality standards
- Integrated DC switch
- IP65 rated design for outdoor use



### User-friendly

- User friendly app interface
- Online monitoring via Wi-Fi and Solplanet apps
- Distinguishable connection interfaces
- ShadeSol shadow management

| Technical Datasheet     |                                                                                               | ASW1000S-S                                                                          | ASW1500S-S      | ASW2000S-S      | ASW3000S-S      |
|-------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------|-----------------|-----------------|
| Input (DC)              | Max. PV array power                                                                           | 1500 Wp STC                                                                         | 2250 Wp STC     | 3000 Wp STC     | 4500 Wp STC     |
|                         | Max. input voltage                                                                            | 580 V                                                                               |                 |                 |                 |
|                         | MPP voltage range / rated input voltage                                                       | 80 V to 550 V / 360 V                                                               |                 |                 |                 |
|                         | Min. input voltage                                                                            | 80 V                                                                                |                 |                 |                 |
|                         | Initial. feed in voltage                                                                      | 100 V                                                                               |                 |                 |                 |
|                         | Max. operating input current                                                                  | 12 A                                                                                |                 |                 |                 |
|                         | Max. short circuit current                                                                    | 18 A                                                                                |                 |                 |                 |
|                         | No. of independent MPPT inputs / strings per MPPT input                                       | 1 / 1                                                                               |                 |                 |                 |
| Output (AC)             | Rated active power                                                                            | 1000 W                                                                              | 1500 W          | 2000 W          | 3000 W          |
|                         | Rated apparent power                                                                          | 1000 VA                                                                             | 1500 VA         | 2000 VA         | 3000 VA         |
|                         | Max. apparent power                                                                           | 1000 VA                                                                             | 1500 VA         | 2000 VA         | 3000 VA         |
|                         | AC nominal voltage                                                                            | 220 V / 230 V / 240 V                                                               |                 |                 |                 |
|                         | AC voltage range                                                                              | 180 V to 290 V                                                                      |                 |                 |                 |
|                         | AC grid frequency / range                                                                     | 50 Hz / 45 Hz to 55 Hz<br>60 Hz / 55 Hz to 65 Hz                                    |                 |                 |                 |
|                         | Max. output current                                                                           | 5 A                                                                                 | 7.5 A           | 10 A            | 13.6 A          |
|                         | Adjustable power factor range                                                                 | 0.8 leading to 0.8 lagging                                                          |                 |                 |                 |
| Efficiency & Protection | Feed-in phases                                                                                | 1                                                                                   |                 |                 |                 |
|                         | Harmonic distortion (THD) at rated output                                                     | < 3 %                                                                               |                 |                 |                 |
|                         | Max. efficiency / European efficiency                                                         | 97.4% / 95.4 %                                                                      | 97.6 % / 96.3 % | 97.6 % / 96.8 % | 97.6 % / 97.1 % |
|                         | DC switch                                                                                     | ●                                                                                   |                 |                 |                 |
|                         | Ground fault monitoring / grid monitoring                                                     | ● / ●                                                                               |                 |                 |                 |
|                         | DC reverse polarity protection / AC short circuit protection                                  | ● / ●                                                                               |                 |                 |                 |
|                         | All-pole-sensitive residual-current monitoring unit                                           | ●                                                                                   |                 |                 |                 |
|                         | Anti-islanding Protection                                                                     | ●                                                                                   |                 |                 |                 |
| General data            | Protection class (according to IEC 62109-1) / overvoltage category (according to IEC 62109-1) | I / AC : III ; DC : II                                                              |                 |                 |                 |
|                         | Dimensions (W / H / D)                                                                        | 320 / 264 / 94 mm                                                                   |                 |                 |                 |
|                         | Weight                                                                                        | 6.5 kg                                                                              |                 |                 |                 |
|                         | Operating temperature range                                                                   | -25°C ... +60°C                                                                     |                 |                 |                 |
|                         | Self-consumption (at night)                                                                   | < 1 W                                                                               |                 |                 |                 |
|                         | Topology                                                                                      | Non-isolated                                                                        |                 |                 |                 |
|                         | Cooling concept                                                                               | Natural convection                                                                  |                 |                 |                 |
|                         | Degree of protection (according to IEC 60529)                                                 | IP65                                                                                |                 |                 |                 |
| Features                | Climatic category (according to IEC 60721-3-4)                                                | 4K4H                                                                                |                 |                 |                 |
|                         | Max. permissible value for relative humidity (non-condensing)                                 | 100%                                                                                |                 |                 |                 |
|                         | Max. operating altitude                                                                       | 3000 m                                                                              |                 |                 |                 |
|                         | DC connection                                                                                 | Plug-in connector                                                                   |                 |                 |                 |
|                         | AC connection                                                                                 | Plug-in connector                                                                   |                 |                 |                 |
|                         | Mounting type                                                                                 | Wall-mount bracket                                                                  |                 |                 |                 |
|                         | LED indicators (Status / Fault / Communication)                                               | ●                                                                                   |                 |                 |                 |
|                         | Communication interface <sup>o</sup>                                                          | ●/●/●/○<br>(RS485/Wi-Fi/LAN/4G)                                                     |                 |                 |                 |
|                         | Country of manufacture                                                                        | China                                                                               |                 |                 |                 |
|                         | Certificates and approvals (more available on request)                                        | CE, IEC62109, IEC61000, EN50549, AS/NZS 4777, C10/C11, IEC61727, IEC62116, IEC61683 |                 |                 |                 |

● Standard features / ○ optional features / – not available  
1- 2-pin RS485 connection to approved smart meters for export power control applications



# ASW S Series



Models:  
ASW6000-S  
ASW8000-S  
ASW10000-S



### Easy-to-install

- Quick & easy-to-install with basic tools
- Quick setup and commissioning with Solplanet apps
- Compact wall mount design



### Safe & reliable

- International quality standards
- Integrated DC switch
- IP66 rated design for outdoor use



### User-friendly

- 16 A input current, compatible with bifacial and large area PV modules
- 3 MPPTs for flexible PV array design
- ShadeSol shadow management

### Technical Datasheet

|                         |                                                                                               | ASW6000-S                                                                                    | ASW8000-S    | ASW10000-S   |
|-------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--------------|--------------|
| Input (DC)              | Max. PV array power                                                                           | 9000 Wp STC                                                                                  | 12000 Wp STC | 15000 Wp STC |
|                         | Max. input voltage                                                                            | 600V                                                                                         |              |              |
|                         | MPP voltage range / rated input voltage                                                       | 80 V - 560 V / 360 V                                                                         |              |              |
|                         | Min. input voltage                                                                            | 80 V                                                                                         |              |              |
|                         | Initial. feed in voltage                                                                      | 100 V                                                                                        |              |              |
|                         | Max. operating input current                                                                  | 16 A                                                                                         |              |              |
|                         | Max. short circuit current                                                                    | 22.5 A                                                                                       |              |              |
|                         | No. of independent MPPT inputs / strings per MPPT input                                       | 3 / 1                                                                                        |              |              |
| Output (AC)             | Rated active power                                                                            | 6000 W                                                                                       | 8000 W       | 10000 W      |
|                         | Rated apparent power                                                                          | 6000 VA                                                                                      | 8000 VA      | 10000 VA     |
|                         | Max. apparent power                                                                           | 6000 VA                                                                                      | 8000 VA      | 10000 VA     |
|                         | AC nominal voltage                                                                            | 220 V / 230 V / 240 V                                                                        |              |              |
|                         | AC voltage range                                                                              | 180 V to 295 V                                                                               |              |              |
|                         | AC grid frequency / range                                                                     | 50 Hz / 45 Hz to 55 Hz<br>60 Hz / 55 Hz to 65 Hz                                             |              |              |
|                         | Max. output current                                                                           | 30 A                                                                                         | 40 A         | 50 A         |
|                         | Adjustable power factor range                                                                 | 0.8 leading to 0.8 lagging                                                                   |              |              |
|                         | Feed-in phases                                                                                | 1                                                                                            |              |              |
|                         | Harmonic distortion (THD) at rated output                                                     | < 3%                                                                                         |              |              |
| Efficiency & Protection | Max. efficiency / European efficiency                                                         | 97.7 % / 97.3 %                                                                              |              |              |
|                         | DC switch                                                                                     | ●                                                                                            |              |              |
|                         | Ground fault monitoring / grid monitoring                                                     | ● / ●                                                                                        |              |              |
|                         | DC reverse polarity protection / AC short circuit protection                                  | ● / ●                                                                                        |              |              |
|                         | All-pole-sensitive residual-current monitoring unit                                           | ●                                                                                            |              |              |
|                         | Anti-Islanding protection                                                                     | ●                                                                                            |              |              |
|                         | Surge protection                                                                              | ● / Type II                                                                                  |              |              |
|                         | Protection class (according to IEC 62109-1) / overvoltage category (according to IEC 62109-1) | I / AC; III; DC: II                                                                          |              |              |
|                         |                                                                                               |                                                                                              |              |              |
| General data            | Dimensions (W / H / D)                                                                        | 503 / 435 / 183 mm                                                                           |              |              |
|                         | Weight                                                                                        | < 19 kg                                                                                      |              |              |
|                         | Operating temperature range                                                                   | -25°C ... +60°C                                                                              |              |              |
|                         | Self-consumption (at night)                                                                   | < 1 W                                                                                        |              |              |
|                         | Topology                                                                                      | Non-isolated                                                                                 |              |              |
|                         | Cooling concept                                                                               | Natural convection                                                                           |              |              |
|                         | Degree of protection (according to IEC 60529)                                                 | IP66                                                                                         |              |              |
|                         | Climatic category (according to IEC 60721-3-4)                                                | 4K4H                                                                                         |              |              |
|                         | Max. permissible value for relative humidity (non-condensing)                                 | 100%                                                                                         |              |              |
| Features                | Max. operating altitude                                                                       | 3000 m                                                                                       |              |              |
|                         | DC connection                                                                                 | Plug-in connector                                                                            |              |              |
|                         | AC connection                                                                                 | Plug-in connector                                                                            |              |              |
|                         | Mounting type                                                                                 | Wall-mount bracket                                                                           |              |              |
|                         | LED indicators (Status / Fault / Communication)                                               | ●                                                                                            |              |              |
|                         | 24/7 monitoring                                                                               | ●                                                                                            |              |              |
|                         | Communication interface <sup>1</sup>                                                          | ●/●/●/○<br>(RS485 /Wi-Fi/ LAN /4G)                                                           |              |              |
|                         | Country of manufacture                                                                        | China                                                                                        |              |              |
|                         | Certificates and approvals (more available on request)                                        | CE, EN50549, IEC62109, IEC62116, IEC61727, IEC61683, IEC60068, IEC61000, AS/NZS4777, C10/C11 |              |              |

● Standard features / ○ optional features / – not available  
Data at nominal conditions. All information is subject to change.  
1) 2-pin RS485 to approved smart meters for export power control applications



Single phase inverters 1 to 2.5 kW

# ASW S-G2 Series



Models:  
ASW1000-S-G2  
ASW1500-S-G2  
ASW2000-S-G2  
ASW2500-S-G2



### Easy-to-install

- Quick & easy-to-install with basic tools
- Quick setup and commissioning with Solplanet apps
- Compact wall mount design



### Safe & reliable

- International quality standards
- Integrated DC switch
- IP66 rated design for outdoor use



### User-friendly

- 16 A input current, compatible with bifacial and large area PV modules
- Optional AC Power Supply
- ShadeSol shadow management
- Support anti-backflow function

| Technical Datasheet     |                                                                                               | ASW1000-S-G2                                     | ASW1500-S-G2 | ASW2000-S-G2 | ASW2500-S-G2 |
|-------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------------------|--------------|--------------|--------------|
| Input (DC)              | Max. PV array power                                                                           | 1500 Wp STC                                      | 2250 Wp STC  | 3000 Wp STC  | 3750 Wp STC  |
|                         | Max. input voltage                                                                            | 600 V                                            | 600 V        | 600 V        | 600 V        |
|                         | MPP voltage range                                                                             | 60 V to 560 V / 360 V                            |              |              |              |
|                         | Full load MPP voltage range                                                                   | 200-500V                                         |              |              |              |
|                         | Min. input voltage                                                                            | 60 V                                             |              |              |              |
|                         | Initial. feed in voltage                                                                      | 100 V                                            |              |              |              |
|                         | Max. operating input current                                                                  | 16 A                                             |              |              |              |
|                         | Max. short circuit current                                                                    | 24 A                                             |              |              |              |
|                         | No. of independent MPPT inputs / strings per MPPT input                                       | 1 / 1                                            |              |              |              |
| Output (AC)             | Rated active power                                                                            | 1000 W                                           | 1500 W       | 2000 W       | 2500 W       |
|                         | Rated apparent power                                                                          | 1000 VA                                          | 1500 VA      | 2000 VA      | 2500 VA      |
|                         | Max. apparent power                                                                           | 1000 VA                                          | 1500 VA      | 2000 VA      | 2500 VA      |
|                         | AC nominal voltage                                                                            | 220 V / 230 V / 240 V                            |              |              |              |
|                         | AC voltage range                                                                              | 180 V to 295 V                                   |              |              |              |
|                         | AC grid frequency / range                                                                     | 50 Hz / 45 Hz to 55 Hz<br>60 Hz / 55 Hz to 65 Hz |              |              |              |
|                         | Max. output current ( A )                                                                     | 5A                                               | 7.5 A        | 10 A         | 12.5 A       |
|                         | Adjustable power factor range                                                                 | 0.8 leading to 0.8 lagging                       |              |              |              |
|                         | Feed-in phases                                                                                | 1                                                |              |              |              |
| Efficiency & Protection | Harmonic distortion (THD) at rated output                                                     | <3%                                              |              |              |              |
|                         | Max. efficiency / European efficiency                                                         | 97.6% / 97.1%                                    |              |              |              |
|                         | DC switch                                                                                     | ●                                                |              |              |              |
|                         | Ground fault monitoring / grid monitoring                                                     | ● / ●                                            |              |              |              |
|                         | DC reverse polarity protection / AC short circuit protection                                  | ● / ●                                            |              |              |              |
|                         | All-pole-sensitive residual-current monitoring unit                                           | ●                                                |              |              |              |
|                         | Arc fault circuit interrupter (AFCI)                                                          | ○                                                |              |              |              |
|                         | Anti-Islanding protection                                                                     | ●                                                |              |              |              |
|                         | Surge protection                                                                              | ● / Type II                                      |              |              |              |
| General data            | Protection class (according to IEC 62109-1) / overvoltage category (according to IEC 62109-1) | I / AC: III; DC: II                              |              |              |              |
|                         | Dimensions (W / H / D)                                                                        | 368 / 325 / 145 mm                               |              |              |              |
|                         | Weight                                                                                        | 9.5 kg                                           |              |              |              |
|                         | Operating temperature range                                                                   | -25°C ... +60°C                                  |              |              |              |
|                         | Self-consumption (at night)                                                                   | < 1 W                                            |              |              |              |
|                         | Topology                                                                                      | Non-isolated                                     |              |              |              |
|                         | Cooling concept                                                                               | Natural convection                               |              |              |              |
|                         | Degree of protection (according to IEC 60529)                                                 | IP66                                             |              |              |              |
|                         | Climatic category (according to IEC 60721-3-4)                                                | 4K4H                                             |              |              |              |
| Features                | Max. permissible value for relative humidity (non-condensing)                                 | 100%                                             |              |              |              |
|                         | Max. operating altitude                                                                       | 4000 m                                           |              |              |              |
|                         | DC connection                                                                                 | Plug-in connector                                |              |              |              |
|                         | AC connection                                                                                 | Plug-in connector                                |              |              |              |
|                         | Mounting type                                                                                 | Wall-mount bracket                               |              |              |              |
|                         | LED indicators (Status / Fault / Communication)                                               | ●                                                |              |              |              |
|                         | 24/7 monitoring                                                                               | ●                                                |              |              |              |
|                         | Communication interface <sup>1)</sup>                                                         | ●/●/●/○<br>(RS485 /Wi-Fi/ LAN /4G)               |              |              |              |
|                         | Country of manufacture                                                                        | China                                            |              |              |              |
|                         | Certificates and approvals(more available on request)                                         | IEC 62109-1/2, EN50549-1, C10/C11,VDE-AR-N 4105  |              |              |              |

● Standard features / ○ optional features / – not available  
Data at nominal conditions. All information is subject to change.  
1) Zero export installations supported with 2-pin RS485 for connection to approved smart meters.

# ASW S-G2 Series



Models:  
ASW3000-S-G2  
ASW3680-S-G2  
ASW4000-S-G2  
ASW5000-S-G2  
ASW6000-S-G2



### Easy-to-install

- Quick & easy-to-install with basic tools
- Quick setup and commissioning with Solplanet apps
- Compact wall mount design



### Safe & reliable

- International quality standards
- Integrated DC switch
- IP66 rated design for outdoor use



### User-friendly

- 16 A input current, compatible with bifacial and large area PV modules
- Optional AC Power Supply
- ShadeSol shadow management
- Support anti-backflow function
- 2 MPPTs for flexible PV array design

| Technical Datasheet     |                                                                                               | ASW3000-S-G2                                                 | ASW3680-S-G2 | ASW4000-S-G2 | ASW5000-S-G2 | ASW6000-S-G2 |
|-------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------|--------------|--------------|--------------|--------------|
| Input (DC)              | Max. PV array power                                                                           | 4500 Wp STC                                                  | 5520 Wp STC  | 6000 Wp STC  | 7500 Wp STC  | 9000 Wp STC  |
|                         | Max. input voltage                                                                            | 600V                                                         |              |              |              |              |
|                         | MPP voltage range / rated input voltage                                                       | 60V-560V/360V                                                |              |              |              |              |
|                         | Min. input voltage                                                                            | 60V                                                          |              |              |              |              |
|                         | Initial. feed in voltage                                                                      | 100V                                                         |              |              |              |              |
|                         | Max. operating input current                                                                  | 16A                                                          |              |              |              |              |
|                         | Max. short circuit current                                                                    | 24A                                                          |              |              |              |              |
|                         | No. of independent MPPT inputs / strings per MPPT input                                       | 2/1                                                          |              |              |              |              |
| Output (AC)             | Rated active power                                                                            | 3000 W                                                       | 3680 W       | 4000 W       | 5000 W       | 6000 W       |
|                         | Rated apparent power                                                                          | 3000 VA                                                      | 3680 VA      | 4000 VA      | 5000 VA      | 6000 VA      |
|                         | Max. apparent power                                                                           | 3000 VA                                                      | 3680 VA      | 4000 VA      | 5000 VA      | 6000 VA      |
|                         | AC nominal voltage                                                                            | 220 V / 230 V / 240 V                                        |              |              |              |              |
|                         | AC voltage range                                                                              | 180 V to 295 V                                               |              |              |              |              |
|                         | AC grid frequency / range                                                                     | 50 Hz / 45 Hz to 55 Hz<br>60 Hz / 55 Hz to 65 Hz             |              |              |              |              |
|                         | Max. output current                                                                           | 15A                                                          | 16A          | 20A          | 25A          | 30A          |
|                         | Adjustable power factor range                                                                 | 1 / 0.8 leading ... 0.8 lagging                              |              |              |              |              |
| Efficiency & Protection | Feed-in phases                                                                                | 1                                                            |              |              |              |              |
|                         | Harmonic distortion (THD) at rated output                                                     | < 3%                                                         |              |              |              |              |
|                         | Max. efficiency / European efficiency                                                         | 98.2% / 97.5%                                                |              |              |              |              |
|                         | DC switch                                                                                     | ●                                                            |              |              |              |              |
|                         | Ground fault monitoring / grid monitoring                                                     | ● / ●                                                        |              |              |              |              |
|                         | DC reverse polarity protection / AC short circuit Protection                                  | ● / ●                                                        |              |              |              |              |
|                         | All-pole-sensitive residual-current monitoring unit                                           | ●                                                            |              |              |              |              |
|                         | Surge protection                                                                              | ● / Type II                                                  |              |              |              |              |
| General data            | Arc fault circuit interrupter (AFCI)                                                          | ○                                                            |              |              |              |              |
|                         | Anti-Islanding protection                                                                     | ●                                                            |              |              |              |              |
|                         | Protection class (according to IEC 62109-1) / overvoltage category (according to IEC 62109-1) | I / AC: III; DC: II                                          |              |              |              |              |
|                         | Dimensions (W / H / D)                                                                        | 368 / 325 / 145 mm                                           |              |              |              |              |
|                         | Weight                                                                                        | 9.5 kg                                                       |              |              |              |              |
|                         | Operating temperature range                                                                   | -25°C ... +60°C                                              |              |              |              |              |
|                         | Self-consumption (at night)                                                                   | < 1 W                                                        |              |              |              |              |
|                         | Topology                                                                                      | Non-isolated                                                 |              |              |              |              |
| Features                | Cooling concept                                                                               | Natural Convection                                           |              |              |              |              |
|                         | Degree of protection (according to IEC 60529)                                                 | IP66                                                         |              |              |              |              |
|                         | Climatic category (according to IEC 60721-3-4)                                                | 4K4H                                                         |              |              |              |              |
|                         | Max. permissible value for relative humidity (non-condensing)                                 | 100%                                                         |              |              |              |              |
|                         | Max. operating altitude                                                                       | 4000 m                                                       |              |              |              |              |
|                         | DC connection                                                                                 | Plug-in connector                                            |              |              |              |              |
|                         | AC connection                                                                                 | Plug-in Connector                                            |              |              |              |              |
|                         | Mounting type                                                                                 | Wall-mount bracket                                           |              |              |              |              |
| Features                | LED Indicators (Status / Fault / Communication)                                               | ●                                                            |              |              |              |              |
|                         | 24/7 monitoring                                                                               | ●                                                            |              |              |              |              |
|                         | Communication interface¹                                                                      | ●/●/●/○<br>(RS485 /Wi-Fi/ LAN /4G)                           |              |              |              |              |
|                         | Country of manufacture                                                                        | China                                                        |              |              |              |              |
|                         | Certificates and approvals(more available on request)                                         | AS/NZS 4777.2,IEC 62109-1/2, IEC 61727, IEC 62116, NB/T32004 |              |              |              |              |

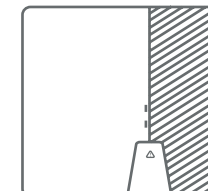
● standard features   ○ optional features   - not available  
Data at nominal conditions. All information is subject to change.  
1) Zero export installations supported with 2-pin RS485 for connection to approved smart meters





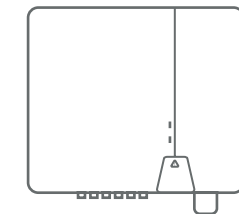
# Three phase inverters

High yield, reliable  
residential and  
commercial inverters

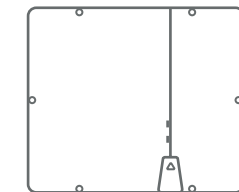


ASW LT-G2 Pro SERIES  
ASW3K / 4K / 5K / 6K / 8K /  
10K-LT-G2 Pro  
ASW12K / 13K / 15K / 17K /  
20K-LT-G2 Pro

ASW LT-G2 SERIES  
ASW8K / 10K / 12K / 15K / 17K/  
20K-LT-G2



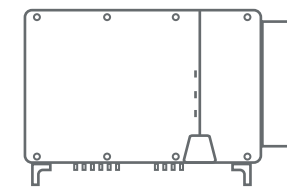
ASW LT-G3 SERIES  
ASW25K / 27K / 30K / 33K /  
36K / 40K-LT-G3



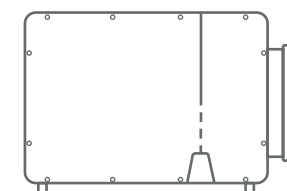
ASW LT-G2 SERIES  
ASW30K / 33K / 36K / 40K / 45K /  
50K-LT-G2

ASW LT-G2 Pro SERIES  
ASW40K / 45K / 50K-LT-G2 Pro

ASW LT-G3 SERIES  
ASW45K / 50K / 60K-LT-G3



ASW LT SERIES  
ASW75K / 80K / 100K / 110K-LT  
ASW125K-LT



ASW HT SERIES  
ASW250K/333K/350K/360K-HT



Three phase inverters 3 to 10 kW

# ASW LT-G2 Pro Series



Models:  
ASW3K-LT-G2 Pro  
ASW4K-LT-G2 Pro  
ASW5K-LT-G2 Pro  
ASW6K-LT-G2 Pro  
ASW8K-LT-G2 Pro  
ASW10K-LT-G2 Pro



### Easy-to-install

- Quick & easy-to-install with basic tools
- Quick setup and commissioning with Solplanet apps
- Compact wall mount design



### Safe & reliable

- International quality standards
- 150 % PV array oversizing for higher yields
- IP66 rated design for outdoor use



### User-friendly

- User friendly app interface
- Max.20 A input current, ideal for bifacial and large area PV modules
- Wide MPP voltage range 150V-1000V
- ShadeSol shadow management

### Technical Datasheet

| Technical Datasheet                                                                           |                                                               | ASW<br>3K-LT-G2 Pro                                                                                                                                 | ASW<br>4K-LT-G2 Pro | ASW<br>5K-LT-G2 Pro | ASW<br>6K-LT-G2 Pro | ASW<br>8K-LT-G2 Pro | ASW<br>10K-LT-G2 Pro |
|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|---------------------|----------------------|
| Input (DC)                                                                                    | Max. PV array power                                           | 4500 Wp STC                                                                                                                                         | 6000 Wp STC         | 7500 Wp STC         | 9000 Wp STC         | 12000 WpSTC         | 15000 Wp STC         |
|                                                                                               | Max. input voltage                                            | 1100 V                                                                                                                                              |                     |                     |                     |                     |                      |
|                                                                                               | MPP voltage range / rated input voltage                       | 150 V to 1000 V / 630 V                                                                                                                             |                     |                     |                     |                     |                      |
|                                                                                               | Min. input voltage                                            | 125 V                                                                                                                                               |                     |                     |                     |                     |                      |
|                                                                                               | Initial. feed-in voltage                                      | 180 V                                                                                                                                               |                     |                     |                     |                     |                      |
|                                                                                               | Max. operating input current                                  | 16 A / 16 A                                                                                                                                         |                     |                     |                     | 20A / 16 A          |                      |
|                                                                                               | Max. short circuit current                                    | 25 A / 25 A                                                                                                                                         |                     |                     |                     | 30 A / 25 A         |                      |
|                                                                                               | No. of independent MPPT inputs / strings per MPPT input       | 2 / A :1 ; B : 1                                                                                                                                    |                     |                     |                     |                     |                      |
| Output (AC)                                                                                   | Rated active power                                            | 3000 W                                                                                                                                              | 4000 W              | 5000 W              | 6000 W              | 8000 W              | 10000 W              |
|                                                                                               | Rated apparent power                                          | 3000 VA                                                                                                                                             | 4000 VA             | 5000 VA             | 6000 VA             | 8000 VA             | 10000 VA             |
|                                                                                               | Max. apparent power                                           | 3000 VA                                                                                                                                             | 4000 VA             | 5000 VA             | 6000 VA             | 8000 VA             | 10000 VA             |
|                                                                                               | AC nominal voltage                                            | 220 V / 380 V<br>230 V / 400 V<br>240 V / 415 V                                                                                                     |                     |                     |                     |                     |                      |
|                                                                                               | AC voltage range                                              | 160 V to 300 V                                                                                                                                      |                     |                     |                     |                     |                      |
|                                                                                               | AC grid frequency / range                                     | 50 Hz / 45 Hz to 55 Hz<br>60 Hz / 55 Hz to 65 Hz                                                                                                    |                     |                     |                     |                     |                      |
|                                                                                               | Max. output current                                           | 4.8A                                                                                                                                                | 6.4 A               | 8.0 A               | 9.6 A               | 12.8 A              | 16 A                 |
|                                                                                               | Adjustable power factor range                                 | 0.8 leading to 0.8 lagging                                                                                                                          |                     |                     |                     |                     |                      |
|                                                                                               | Feed-in phases                                                | 3 / 3-N-PE                                                                                                                                          |                     |                     |                     |                     |                      |
|                                                                                               | Harmonic distortion (THD) at rated output                     | < 3%                                                                                                                                                |                     |                     |                     |                     |                      |
|                                                                                               | Efficiency & Protection                                       | Max. efficiency / European efficiency                                                                                                               | 98.3 % / 97.9 %     |                     |                     |                     | 98.6% / 98.2 %       |
| DC Switch                                                                                     |                                                               | ●                                                                                                                                                   |                     |                     |                     |                     |                      |
| Ground fault monitoring / grid monitoring                                                     |                                                               | ● / ●                                                                                                                                               |                     |                     |                     |                     |                      |
| DC reverse polarity protection / AC short circuit protection                                  |                                                               | ● / ●                                                                                                                                               |                     |                     |                     |                     |                      |
| All-pole-sensitive residual-current monitoring unit                                           |                                                               | ●                                                                                                                                                   |                     |                     |                     |                     |                      |
| Arc fault circuit interrupter (AFCI)                                                          |                                                               | ○                                                                                                                                                   |                     |                     |                     |                     |                      |
| Anti-Islanding protection                                                                     |                                                               | ●                                                                                                                                                   |                     |                     |                     |                     |                      |
| Surge protection                                                                              |                                                               | ● / Type II                                                                                                                                         |                     |                     |                     |                     |                      |
| Protection class (according to IEC 62109-1) / overvoltage category (according to IEC 62109-1) |                                                               | I / AC : III ; DC : II                                                                                                                              |                     |                     |                     |                     |                      |
| General data                                                                                  | Dimensions (W / H / D)                                        | 503 / 435 / 183 mm                                                                                                                                  |                     |                     |                     |                     |                      |
|                                                                                               | Weight                                                        | 16 kg                                                                                                                                               |                     |                     |                     |                     |                      |
|                                                                                               | Operating temperature range                                   | -25°C ... +60°C                                                                                                                                     |                     |                     |                     |                     |                      |
|                                                                                               | Self-consumption (at night)                                   | < 1 W                                                                                                                                               |                     |                     |                     |                     |                      |
|                                                                                               | Topology                                                      | Non-isolated                                                                                                                                        |                     |                     |                     |                     |                      |
|                                                                                               | Cooling concept                                               | Natural Convection                                                                                                                                  |                     |                     |                     |                     |                      |
|                                                                                               | Degree of protection (according to IEC 60529)                 | IP66                                                                                                                                                |                     |                     |                     |                     |                      |
|                                                                                               | Climatic category (according to IEC 60721-3-4)                | 4K4H                                                                                                                                                |                     |                     |                     |                     |                      |
|                                                                                               | Max. permissible value for relative humidity (non-condensing) | 100 %                                                                                                                                               |                     |                     |                     |                     |                      |
|                                                                                               | Max. operating altitude                                       | 3000 m                                                                                                                                              |                     |                     |                     |                     |                      |
| Features                                                                                      | DC connection                                                 | Plug-in connector                                                                                                                                   |                     |                     |                     |                     |                      |
|                                                                                               | AC connection                                                 | Plug-in connector                                                                                                                                   |                     |                     |                     |                     |                      |
|                                                                                               | Mounting type                                                 | Wall-mount bracket                                                                                                                                  |                     |                     |                     |                     |                      |
|                                                                                               | LED indicators (Status / Fault / Communication)               | ●                                                                                                                                                   |                     |                     |                     |                     |                      |
|                                                                                               | 24/7 monitoring                                               | ●                                                                                                                                                   |                     |                     |                     |                     |                      |
|                                                                                               | Communication interface¹                                      | ●/●/●/○<br>(RS485 /Wi-Fi/ LAN /4G)                                                                                                                  |                     |                     |                     |                     |                      |
|                                                                                               | Country of Manufacture                                        | China                                                                                                                                               |                     |                     |                     |                     |                      |
|                                                                                               | Certificates and approvals (more available on request)        | CE, EN50549, G98/99, VDE-AR-N4105, AS/NZS 4777, C10/C11, VFR 2014 & UTE C15, IEC62109, IEC62116, IEC61727, IEC61683, IEC60068, IEC61000, NB/T 32004 |                     |                     |                     |                     |                      |

● Standard features / ○ optional features / – not available  
1- Zero export installations supported with 2-pin RS485 for connection to approved smart meters  
Data at nominal conditions. All information is subject to change.

Three phase inverters 12 to 20 kW

# ASW LT-G2 Pro Series



Models:  
ASW12K-LT-G2 Pro  
ASW13K-LT-G2 Pro  
ASW15K-LT-G2 Pro  
ASW17K-LT-G2 Pro  
ASW20K-LT-G2 Pro



### Easy-to-install

- Quick & easy-to-install with basic tools
- Quick setup and commissioning with Solplanet apps
- Compact wall mount design



### Safe & reliable

- International quality standards
- 150 % PV array oversizing for higher yields
- IP66 rated design for outdoor use



### User-friendly

- User friendly app interface
- 20 A input current, ideal for bifacial and large area PV modules
- Wide MPP voltage range 150V-1000V
- ShadeSol shadow management

### Technical Datasheet

|                         |                                                                                               | ASW<br>12K-LT-G2 Pro                                                                         | ASW<br>13K-LT-G2 Pro | ASW<br>15K-LT-G2 Pro | ASW<br>17K-LT-G2 Pro | ASW<br>20K-LT-G2 Pro |
|-------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------|----------------------|----------------------|----------------------|
| Input (DC)              | Max. PV array power                                                                           | 18000 Wp STC                                                                                 | 19500Wp STC          | 22500 Wp STC         | 25500 Wp STC         | 30000 Wp STC         |
|                         | Max. input voltage                                                                            | 1100 V                                                                                       |                      |                      |                      |                      |
|                         | MPP voltage range / rated input voltage                                                       | 150 V to 1000 V / 630 V                                                                      |                      |                      |                      |                      |
|                         | Min. input voltage                                                                            | 125 V                                                                                        |                      |                      |                      |                      |
|                         | Initial. feed-in voltage                                                                      | 180 V                                                                                        |                      |                      |                      |                      |
|                         | Max. operating input current                                                                  | 32 A / 20 A                                                                                  | 32 A / 20 A          | 32 A / 20 A          | 32 A / 32 A          | 32 A / 32 A          |
|                         | Max. short circuit current                                                                    | 48 A / 30 A                                                                                  | 48 A / 30A           | 48 A / 30 A          | 48 A / 48 A          | 48 A / 48 A          |
| Output (AC)             | No. of independent MPPT inputs / strings per MPPT input                                       | 2 / A:2;B:1                                                                                  | 2 / A:2;B:1          | 2/A:2;B:1            | 2 / A:2;B:2          | 2 / A:2;B:2          |
|                         | Rated active power                                                                            | 12000 W                                                                                      | 13000 W              | 15000 W              | 17000 W              | 20000 W              |
|                         | Rated apparent power                                                                          | 12000 VA                                                                                     | 13000 VA             | 15000 VA             | 17000 VA             | 20000 VA             |
|                         | Max. apparent power                                                                           | 12000 VA                                                                                     | 13000 VA             | 15000 VA             | 17000 VA             | 20000 VA             |
|                         | AC nominal voltage                                                                            | 220 V / 380 V<br>230 V / 400 V<br>240 V / 415 V                                              |                      |                      |                      |                      |
|                         | AC voltage range                                                                              | 160 V to 300 V                                                                               |                      |                      |                      |                      |
|                         | AC grid frequency / range                                                                     | 50 Hz / 45 Hz to 55 Hz<br>60 Hz / 55 Hz to 65 Hz                                             |                      |                      |                      |                      |
| Efficiency & Protection | Max. output current                                                                           | 19.1 A                                                                                       | 20.7 A               | 24 A                 | 27.1 A               | 31.9 A               |
|                         | Adjustable power factor range                                                                 | 0.8 leading to 0.8 lagging                                                                   |                      |                      |                      |                      |
|                         | Feed-in phases                                                                                | 3 / 3-N-PE                                                                                   |                      |                      |                      |                      |
|                         | Harmonic distortion (THD) at rated output                                                     | < 3 %                                                                                        |                      |                      |                      |                      |
|                         | Max. efficiency / European efficiency                                                         | 98.6% / 98.2 %                                                                               |                      |                      |                      |                      |
|                         | DC Switch                                                                                     | ●                                                                                            |                      |                      |                      |                      |
|                         | Ground fault monitoring / grid monitoring                                                     | ● / ●                                                                                        |                      |                      |                      |                      |
| General data            | DC reverse polarity protection / AC short circuit protection                                  | ● / ●                                                                                        |                      |                      |                      |                      |
|                         | All-pole-sensitive residual-current monitoring unit                                           | ●                                                                                            |                      |                      |                      |                      |
|                         | Arc fault circuit interrupter (AFCI)                                                          | ○                                                                                            |                      |                      |                      |                      |
|                         | Anti-Islanding protection                                                                     | ●                                                                                            |                      |                      |                      |                      |
|                         | Surge protection                                                                              | ● / Type II                                                                                  |                      |                      |                      |                      |
|                         | Protection class (according to IEC 62109-1) / overvoltage category (according to IEC 62109-1) | I/AC: III; DC :II                                                                            |                      |                      |                      |                      |
|                         | Dimensions (W / H / D)                                                                        | 503 / 435 / 183 mm                                                                           |                      |                      |                      |                      |
| Features                | Weight                                                                                        | 17 kg                                                                                        |                      |                      |                      |                      |
|                         | Operating temperature range                                                                   | -25°C ... +60°C                                                                              |                      |                      |                      |                      |
|                         | Self-consumption (at night)                                                                   | < 1 W                                                                                        |                      |                      |                      |                      |
|                         | Topology                                                                                      | Non-isolated                                                                                 |                      |                      |                      |                      |
|                         | Cooling concept                                                                               | Active cooling                                                                               |                      |                      |                      |                      |
|                         | Degree of protection (according to IEC 60529)                                                 | IP66                                                                                         |                      |                      |                      |                      |
|                         | Climatic category (according to IEC 60721-3-4)                                                | 4K4H                                                                                         |                      |                      |                      |                      |
|                         | Max. permissible value for relative humidity (non-condensing)                                 | 100%                                                                                         |                      |                      |                      |                      |
|                         | Max. operating altitude                                                                       | 3000 m                                                                                       |                      |                      |                      |                      |
|                         | DC connection                                                                                 | Plug-in connector                                                                            |                      |                      |                      |                      |
|                         | AC connection                                                                                 | Plug-in connector                                                                            |                      |                      |                      |                      |
|                         | Mounting type                                                                                 | Wall-mount bracket                                                                           |                      |                      |                      |                      |
|                         | LED indicators (Status / Fault / Communication)                                               | ●                                                                                            |                      |                      |                      |                      |
|                         | 24/7 monitoring                                                                               | ●                                                                                            |                      |                      |                      |                      |
|                         | Communication interface <sup>9)</sup>                                                         | ●/●/●/○<br>(RS485 /Wi-Fi/ LAN /4G)                                                           |                      |                      |                      |                      |
|                         | Country of manufacture                                                                        | China                                                                                        |                      |                      |                      |                      |
|                         | Certificates and approvals (more available on request)                                        | CE, EN50549, IEC62109, IEC62116, IEC61727, IEC61683, IEC60068, IEC61000, AS/NZS4777, C10/C11 |                      |                      |                      |                      |

● Standard features / ○ optional features / – not available  
1- Zero export installations supported with 2-pin RS485 for connection to approved smart meters  
Data at nominal conditions. All information is subject to change.



Three phase inverters 8 to 20 kW

# ASW LT-G2 Series



Models:  
ASW8K-LT-G2  
ASW10K-LT-G2  
ASW12K-LT-G2  
ASW15K-LT-G2  
ASW17K-LT-G2  
ASW20K-LT-G2



### Easy-to-install

- Quick & easy-to-install with basic tools
- Quick setup and commissioning with Solplanet apps
- Compact wall mount design



### Safe & reliable

- International quality standards
- 150 % PV array oversizing for higher yields
- IP66 rated design for outdoor use



### User-friendly

- User friendly app interface
- 13 A input current, ideal for bifacial and large area PV modules
- Wide MPP voltage range 150V-1000V
- ShadeSol shadow management

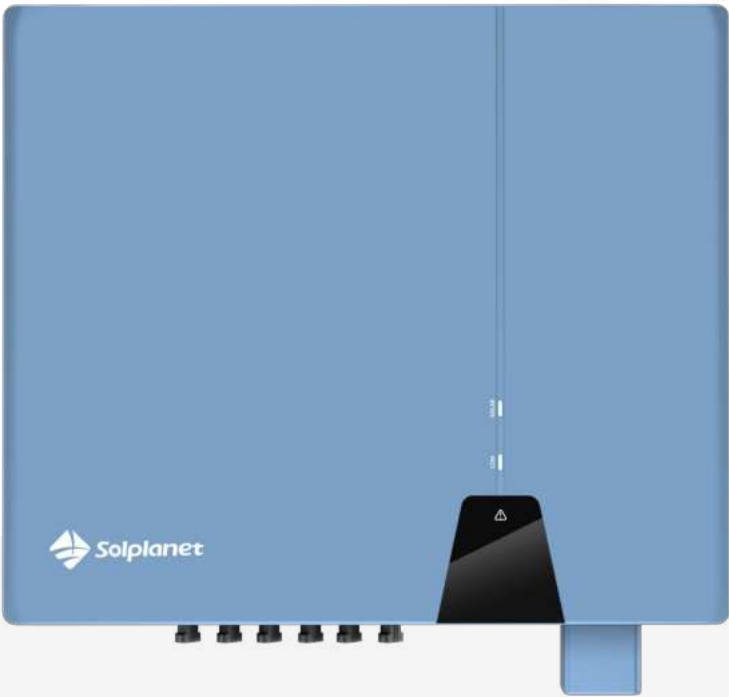
### Technical Datasheet

| Technical Datasheet                                                                           |                                                               | ASW<br>8K-LT-G2                                                                              | ASW<br>10K-LT-G2 | ASW<br>12K-LT-G2 | ASW<br>15K-LT-G2 | ASW<br>17K-LT-G2 | ASW<br>20K-LT-G2 |  |
|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------|------------------|------------------|------------------|------------------|--|
| Input (DC)                                                                                    | Max. PV array power                                           | 12000 Wp STC                                                                                 | 15000 Wp STC     | 18000 Wp STC     | 22500 Wp STC     | 25500 Wp STC     | 30000 Wp STC     |  |
|                                                                                               | Max. input voltage                                            | 1100 V                                                                                       |                  |                  |                  |                  |                  |  |
|                                                                                               | MPP voltage range / rated input voltage                       | 150 V to 1000 V / 630 V                                                                      |                  |                  |                  |                  |                  |  |
|                                                                                               | Min. input voltage                                            | 125 V                                                                                        |                  |                  |                  |                  |                  |  |
|                                                                                               | Initial. feed-in voltage                                      | 150 V                                                                                        |                  |                  |                  |                  |                  |  |
|                                                                                               | Max. operating input current                                  | 26 A / 13 A                                                                                  | 26 A / 13 A      | 26 A / 26 A      | 26A/26A          | 26A/26A          | 26A/26A          |  |
|                                                                                               | Max. short circuit current                                    | 40 A / 20 A                                                                                  | 40 A / 20 A      | 40 A / 40 A      | 40A /40 A        | 40A/40A          | 40A/40A          |  |
|                                                                                               | No. of independent MPPT inputs /strings per MPPT input        | 2 / A:1;B:1                                                                                  | 2 / A:1;B:1      | 2 / A:2;B:1      | 2/A:2;B:1        | 2 / A:2;B:2      | 2 / A:2;B:2      |  |
| Output (AC)                                                                                   | Rated active power                                            | 8000 W                                                                                       | 10000 W          | 12000 W          | 15000 W          | 17000 W          | 20000 W          |  |
|                                                                                               | Rated apparent power                                          | 8000 VA                                                                                      | 10000 VA         | 12000 VA         | 15000 VA         | 17000 VA         | 20000 VA         |  |
|                                                                                               | Max. apparent power                                           | 8000 VA                                                                                      | 10000 VA         | 12000 VA         | 15000 VA         | 17000 VA         | 20000 VA         |  |
|                                                                                               | AC nominal voltage                                            | 220 V / 380 V<br>230 V / 400 V<br>240 V / 415 V                                              |                  |                  |                  |                  |                  |  |
|                                                                                               | AC voltage range                                              | 160 V to 300 V                                                                               |                  |                  |                  |                  |                  |  |
|                                                                                               | AC grid frequency / range                                     | 50 Hz / 45 Hz to 55 Hz<br>60 Hz / 55 Hz to 65 Hz                                             |                  |                  |                  |                  |                  |  |
|                                                                                               | Max. output current                                           | 12.8 A                                                                                       | 16 A             | 19.1 A           | 24 A             | 27.1 A           | 31.9 A           |  |
|                                                                                               | Adjustable power factor range                                 | 0.8 leading to 0.8 lagging                                                                   |                  |                  |                  |                  |                  |  |
|                                                                                               | Feed-in phases                                                | 3 / 3-N-PE                                                                                   |                  |                  |                  |                  |                  |  |
|                                                                                               | Harmonic distortion (THD) at rated output                     | <3 %                                                                                         |                  |                  |                  |                  |                  |  |
|                                                                                               | Efficiency & Protection                                       | Max. efficiency / European efficiency                                                        | 98.6 % / 98.2 %  |                  |                  |                  |                  |  |
|                                                                                               |                                                               | DC Switch                                                                                    | ●                |                  |                  |                  |                  |  |
| Ground fault monitoring / grid monitoring                                                     |                                                               | ● / ●                                                                                        |                  |                  |                  |                  |                  |  |
| DC reverse polarity protection / AC short circuit protection                                  |                                                               | ● / ●                                                                                        |                  |                  |                  |                  |                  |  |
| All-pole-sensitive residual-current monitoring unit                                           |                                                               | ●                                                                                            |                  |                  |                  |                  |                  |  |
| Anti-Islanding protection                                                                     |                                                               | ●                                                                                            |                  |                  |                  |                  |                  |  |
| Surge protection                                                                              |                                                               | ● / Type II                                                                                  |                  |                  |                  |                  |                  |  |
| Protection class (according to IEC 62109-1) / overvoltage category (according to IEC 62109-1) |                                                               | I / AC: III; DC: II                                                                          |                  |                  |                  |                  |                  |  |
| General data                                                                                  | Dimensions (W / H / D)                                        | 503 / 435 / 183 mm                                                                           |                  |                  |                  |                  |                  |  |
|                                                                                               | Weight                                                        | 16 kg                                                                                        |                  | 17 kg            |                  |                  |                  |  |
|                                                                                               | Operating temperature range                                   | -25°C ... +60°C                                                                              |                  |                  |                  |                  |                  |  |
|                                                                                               | Self-consumption (at night)                                   | < 1 W                                                                                        |                  |                  |                  |                  |                  |  |
|                                                                                               | Topology                                                      | Non-isolated                                                                                 |                  |                  |                  |                  |                  |  |
|                                                                                               | Cooling concept                                               | Natural convection                                                                           |                  | Active cooling   |                  |                  |                  |  |
|                                                                                               | Degree of protection (according to IEC 60529)                 | IP66                                                                                         |                  |                  |                  |                  |                  |  |
|                                                                                               | Climatic category (according to IEC 60721-3-4)                | 4K4H                                                                                         |                  |                  |                  |                  |                  |  |
|                                                                                               | Max. permissible value for relative humidity (non-condensing) | 100%                                                                                         |                  |                  |                  |                  |                  |  |
|                                                                                               | Max. operating altitude                                       | 3000 m                                                                                       |                  |                  |                  |                  |                  |  |
| Features                                                                                      | DC connection                                                 | Plug-in connector                                                                            |                  |                  |                  |                  |                  |  |
|                                                                                               | AC connection                                                 | Plug-in connector                                                                            |                  |                  |                  |                  |                  |  |
|                                                                                               | Mounting type                                                 | Wall-mount bracket                                                                           |                  |                  |                  |                  |                  |  |
|                                                                                               | LED indicators (Status / Fault / Communication)               | ●                                                                                            |                  |                  |                  |                  |                  |  |
|                                                                                               | Communication interface                                       | ●/●/●/○<br>(RS485 /Wi-Fi/ LAN /4G)                                                           |                  |                  |                  |                  |                  |  |
|                                                                                               | Country of manufacture                                        | China                                                                                        |                  |                  |                  |                  |                  |  |
|                                                                                               | Certificates and approvals (more available on request)        | CE, EN50549, IEC62109, IEC62116, IEC61727, IEC61683, IEC60068, IEC61000, AS/NZS4777, C10/C11 |                  |                  |                  |                  |                  |  |

● Standard features / ○ optional features / – not available  
Data at nominal conditions. All information is subject to change.

Three phase inverters 25 to 40 kW

# ASW LT-G3 Series



Models:  
ASW25K-LT-G3  
ASW27K-LT-G3  
ASW30K-LT-G3  
ASW33K-LT-G3  
ASW36K-LT-G3  
ASW40K-LT-G3



### Easy-to-install

- Quick & easy-to-instal with basic tools
- Quick setup and commissioning with Solplanet apps
- Compact wall mount design



### Safe & reliable

- International quality standards
- 150 % PV array oversizing for higher yields
- IP66 rated design for outdoor use



### User-friendly

- 20A input current, ideal for bifacial and large area PV modules
- 3 MPPTs for flexible PV array design
- Wide MPP voltage range 180V-1000V
- ShadeSol shadow management

### Technical Datasheet

| Technical Datasheet                                    |                                                                                               | ASW 25K-LT-G3                                                   | ASW 27K-LT-G3     | ASW 30K-LT-G3 | ASW 33K-LT-G3   | ASW 36K-LT-G3 | ASW 40K-LT-G3 |
|--------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------|---------------|-----------------|---------------|---------------|
| Input (DC)                                             | Max. PV array power                                                                           | 37500 Wp STC                                                    | 40500 Wp STC      | 45000 Wp STC  | 49500 Wp STC    | 54000 Wp STC  | 60000 Wp STC  |
|                                                        | Max. input voltage                                                                            | 1100 V                                                          |                   |               |                 |               |               |
|                                                        | MPP voltage range / rated input voltage                                                       | 180 V - 1000 V / 630 V                                          |                   |               |                 |               |               |
|                                                        | Min. input voltage                                                                            | 160 V                                                           |                   |               |                 |               |               |
|                                                        | Initial. feed-in voltage                                                                      | 200 V                                                           |                   |               |                 |               |               |
|                                                        | Max. operating input current                                                                  | 32A / 32 A /32A                                                 |                   |               | 32A / 32 A /40A |               |               |
|                                                        | Max. short circuit current                                                                    | 48 A / 48A /48A                                                 |                   |               | 48 A / 48A /60A |               |               |
|                                                        | No. of independent MPPT inputs / strings per MPPT input                                       | 3 / A:2;B:2;C:2                                                 |                   |               | 3 / A:2;B:2;C:2 |               |               |
| Output (AC)                                            | Rated active power                                                                            | 25000W                                                          | 27000W            | 30000W        | 33000W          | 36000W        | 40000W        |
|                                                        | Rated apparent power                                                                          | 25000 VA                                                        | 27000 VA          | 30000 VA      | 33000 VA        | 36000 VA      | 40000 VA      |
|                                                        | Max. apparent power                                                                           | 25000 VA                                                        | 27000 VA          | 30000 VA      | 33000 VA        | 36000 VA      | 40000 VA      |
|                                                        | AC nominal voltage                                                                            | 220 V / 380 V<br>230 V / 400 V<br>240 V / 415 V                 |                   |               |                 |               |               |
|                                                        | AC voltage range                                                                              | 180 V to 305 V / 312 V to 528V                                  |                   |               |                 |               |               |
|                                                        | AC grid frequency / range                                                                     | 50 Hz / 45 Hz to 55 Hz<br>60 Hz / 55 Hz to 65 Hz                |                   |               |                 |               |               |
|                                                        | Max. output current                                                                           | 39.9A                                                           | 43.0A             | 47.8A         | 52.6A           | 57.4A         | 63.8A         |
|                                                        | Adjustable power factor range                                                                 | 0.8 leading to 0.8 lagging                                      |                   |               |                 |               |               |
|                                                        | Feed-in phases                                                                                | 3 / 3-N-PE                                                      |                   |               |                 |               |               |
|                                                        | Harmonic distortion (THD) at rated output                                                     | < 3%                                                            |                   |               |                 |               |               |
| Efficiency & Protection                                | Max. efficiency / European efficiency                                                         | 98.4% / 98.2%                                                   |                   |               |                 |               |               |
|                                                        | DC Switch                                                                                     | ●                                                               |                   |               |                 |               |               |
|                                                        | Ground fault monitoring / grid monitoring                                                     | ● / ●                                                           |                   |               |                 |               |               |
|                                                        | DC reverse polarity protection / AC short circuit protection                                  | ● / ●                                                           |                   |               |                 |               |               |
|                                                        | All-pole-sensitive residual-current monitoring unit                                           | ●                                                               |                   |               |                 |               |               |
|                                                        | Arc fault circuit interrupter (AFCI)                                                          | ○                                                               |                   |               |                 |               |               |
|                                                        | Anti-islanding Protection                                                                     | ●                                                               |                   |               |                 |               |               |
|                                                        | Surge protection                                                                              | ● / Type II                                                     |                   |               |                 |               |               |
|                                                        | Protection class (according to IEC 62109-1) / overvoltage category (according to IEC 62109-1) | I / AC: III; DC: II                                             |                   |               |                 |               |               |
|                                                        | Dimensions (W / H / D)                                                                        | 543 / 520 / 235 mm                                              |                   |               |                 |               |               |
| General data                                           | Weight                                                                                        | 29 kg                                                           |                   |               | 30 kg           |               |               |
|                                                        | Operating temperature range                                                                   | -25°C ... +60°C                                                 |                   |               |                 |               |               |
|                                                        | Self-consumption (at night)                                                                   | < 1 W                                                           |                   |               |                 |               |               |
|                                                        | Topology                                                                                      | Non-isolated                                                    |                   |               |                 |               |               |
|                                                        | Cooling concept                                                                               | Active cooling                                                  |                   |               |                 |               |               |
|                                                        | Degree of protection (according to IEC 60529)                                                 | IP66                                                            |                   |               |                 |               |               |
|                                                        | Climatic category (according to IEC 60721-3-4)                                                | 4K4H                                                            |                   |               |                 |               |               |
|                                                        | Max. permissible value for relative humidity (non-condensing)                                 | 100 %                                                           |                   |               |                 |               |               |
|                                                        | Max. operating altitude                                                                       | 3000 m                                                          |                   |               |                 |               |               |
|                                                        | Features                                                                                      | DC connection                                                   | Plug-in connector |               |                 |               |               |
| AC connection                                          |                                                                                               | Plug-in connector                                               |                   |               |                 |               |               |
| Mounting type                                          |                                                                                               | Wall-mount bracket                                              |                   |               |                 |               |               |
| LED Indicators (Status / Fault / Communication)        |                                                                                               | ●                                                               |                   |               |                 |               |               |
| 24/7 monitoring                                        |                                                                                               | ●                                                               |                   |               |                 |               |               |
| Communication interface¹                               |                                                                                               | ●/●/●/○<br>(RS485 /Wi-Fi/ LAN /4G)                              |                   |               |                 |               |               |
| Country of manufacture                                 |                                                                                               | China                                                           |                   |               |                 |               |               |
| Certificates and approvals (more available on request) |                                                                                               | CE, EN50549 ,IEC62109, IEC62116, IEC61727, IEC61000, NB/T 32004 |                   |               |                 |               |               |

● Standard features / ○ optional features / – not available

1- Zero export installations supported with 2-pin RS485 for connection to approved smart meters

# ASW LT-G2 Series



Models:  
ASW30K-LT-G2  
ASW33K-LT-G2  
ASW36K-LT-G2  
ASW40K-LT-G2  
ASW45K-LT-G2  
ASW50K-LT-G2



### Easy-to-install

- Quick & easy-to-install with basic tools
- Quick setup and commissioning with Solplanet apps
- Compact wall mount design



### Safe & reliable

- International quality standards
- 150 % PV array oversizing for higher yields
- IP66 rated design for outdoor use



### User-friendly

- 13 A input current, ideal for bifacial and large area PV modules
- 5 MPPTs for flexible PV array design
- Wide MPP voltage range 200V-1000V
- ShadeSol shadow management

### Technical Datasheet

|                         |                                                                                               | ASW<br>30K-LT-G2                                                          | ASW<br>33K-LT-G2 | ASW<br>36K-LT-G2 | ASW<br>40K-LT-G2 | ASW<br>45K-LT-G2 | ASW<br>50K-LT-G2 |
|-------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------|------------------|------------------|------------------|------------------|
| Input (DC)              | Max. PV array power                                                                           | 45000 Wp STC                                                              | 49500 Wp STC     | 54000 Wp STC     | 60000 Wp STC     | 67500 Wp STC     | 75000 Wp STC     |
|                         | Max. input voltage                                                                            | 1100 V                                                                    |                  |                  |                  |                  |                  |
|                         | MPP voltage range / rated input voltage                                                       | 200 V to 1000 V / 630 V                                                   |                  |                  |                  |                  |                  |
|                         | Min. input voltage                                                                            | 200 V                                                                     |                  |                  |                  |                  |                  |
|                         | Initial. feed-in voltage                                                                      | 250 V                                                                     |                  |                  |                  |                  |                  |
|                         | Max. operating input current                                                                  | 26 A                                                                      |                  |                  |                  |                  |                  |
|                         | Max. short circuit current                                                                    | 40 A                                                                      |                  |                  |                  |                  |                  |
|                         | No. of independent MPPT inputs / strings per MPPT input                                       | 3 / 2                                                                     | 3 / 2            | 3 / 2            | 4 / 2            | 4 / 2            | 5 / 2            |
| Output (AC)             | Rated active power                                                                            | 30000 W                                                                   | 33000 W          | 36000 W          | 40000 W          | 45000 W          | 50000 W          |
|                         | Rated apparent power                                                                          | 30000 VA                                                                  | 33000 VA         | 36000 VA         | 40000 VA         | 45000 VA         | 50000 VA         |
|                         | Max. apparent power                                                                           | 30000 VA                                                                  | 33000 VA         | 36000 VA         | 40000 VA         | 45000 VA         | 50000 VA         |
|                         | AC nominal voltage                                                                            | 220 V / 380 V<br>230 V / 400 V                                            |                  |                  |                  |                  |                  |
|                         | AC voltage range                                                                              | 180-305 V / 312-528 V                                                     |                  |                  |                  |                  |                  |
|                         | AC grid frequency / range                                                                     | 50 Hz / 45 Hz to 55 Hz<br>60 Hz / 55 Hz to 65 Hz                          |                  |                  |                  |                  |                  |
|                         | Max. output current                                                                           | 50.0 A                                                                    | 55.0 A           | 60.0 A           | 66.7 A           | 75.0 A           | 80.0 A           |
|                         | Adjustable power factor range                                                                 | 0.8 leading to 0.8 lagging                                                |                  |                  |                  |                  |                  |
|                         | Feed-in phases                                                                                | 3 / 3-N-PE                                                                |                  |                  |                  |                  |                  |
|                         | Harmonic distortion (THD) at rated output                                                     | < 3%                                                                      |                  |                  |                  |                  |                  |
| Efficiency & Protection | Max. efficiency / European efficiency                                                         | 98.6% / 98.3%                                                             |                  |                  |                  |                  |                  |
|                         | DC switch                                                                                     | ●                                                                         |                  |                  |                  |                  |                  |
|                         | Ground fault monitoring / grid monitoring                                                     | ● / ●                                                                     |                  |                  |                  |                  |                  |
|                         | DC reverse polarity protection / AC short circuit protection                                  | ● / ●                                                                     |                  |                  |                  |                  |                  |
|                         | All-pole-sensitive residual-current monitoring unit                                           | ●                                                                         |                  |                  |                  |                  |                  |
|                         | Anti-islanding Protection                                                                     | ●                                                                         |                  |                  |                  |                  |                  |
|                         | Surge protection                                                                              | ● / Type II                                                               |                  |                  |                  |                  |                  |
|                         | Protection class (according to IEC 62109-1) / overvoltage category (according to IEC 62109-1) | I / AC: III; DC: II                                                       |                  |                  |                  |                  |                  |
|                         |                                                                                               |                                                                           |                  |                  |                  |                  |                  |
| General data            | Dimensions (W / H / D)                                                                        | 670 / 580 / 270 mm                                                        |                  |                  |                  |                  |                  |
|                         | Weight                                                                                        | 43 kg                                                                     |                  |                  |                  |                  |                  |
|                         | Operating temperature range                                                                   | -25°C ... +60°C                                                           |                  |                  |                  |                  |                  |
|                         | Self-consumption (at night)                                                                   | < 1 W                                                                     |                  |                  |                  |                  |                  |
|                         | Topology                                                                                      | Non-isolated                                                              |                  |                  |                  |                  |                  |
|                         | Cooling concept                                                                               | Active cooling                                                            |                  |                  |                  |                  |                  |
|                         | Degree of protection (according to IEC 60529)                                                 | IP66                                                                      |                  |                  |                  |                  |                  |
|                         | Climatic category (according to IEC 60721-3-4)                                                | 4K4H                                                                      |                  |                  |                  |                  |                  |
|                         | Max. permissible value for relative humidity (non-condensing)                                 | 100 %                                                                     |                  |                  |                  |                  |                  |
| Features                | Max. operating altitude                                                                       | 3000 m                                                                    |                  |                  |                  |                  |                  |
|                         | DC connection                                                                                 | Plug-in connector                                                         |                  |                  |                  |                  |                  |
|                         | AC connection                                                                                 | OT connector                                                              |                  |                  |                  |                  |                  |
|                         | Mounting type                                                                                 | Wall-mount bracket                                                        |                  |                  |                  |                  |                  |
|                         | LED indicators (Status / Fault / Communication)                                               | ●                                                                         |                  |                  |                  |                  |                  |
|                         | Communication interface                                                                       | ●/●/●/○<br>(RS485 /Wi-Fi/ LAN /4G)                                        |                  |                  |                  |                  |                  |
|                         | Country of manufacture                                                                        | China                                                                     |                  |                  |                  |                  |                  |
|                         | Certificates and approvals(more available on request)                                         | CE, EN50549 ,IEC62109, IEC62116, IEC61727, IEC61683, IEC61000, NB/T 32004 |                  |                  |                  |                  |                  |

● Standard features / ○ optional features / – not available  
Data at nominal conditions. All information is subject to change.



# ASW LT-G2 Pro Series



Models:  
ASW40K-LT-G2 Pro  
ASW45K-LT-G2 Pro  
ASW50K-LT-G2 Pro



### Easy-to-install

- Quick & easy-to-install with basic tools
- Quick setup and commissioning with Solplanet apps
- Compact wall mount design

### Safe & reliable

- International quality standards
- 150 % PV array oversizing for higher yields
- IP66 rated design for outdoor use

### User-friendly

- 16 A input current, ideal for bifacial and large area PV modules
- 5 MPPTs for flexible PV array design
- Wide MPP voltage range 200V-1000V
- ShadeSol shadow management

| Technical Datasheet     |                                                                                               | ASW40K-LT-G2 Pro                                                          | ASW45K-LT-G2 Pro | ASW50K-LT-G2 Pro |
|-------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------|------------------|
| Input (DC)              | Max. PV array power                                                                           | 60000 Wp STC                                                              | 67500 Wp STC     | 75000 Wp STC     |
|                         | Max. input voltage                                                                            | 1100 V                                                                    |                  |                  |
|                         | MPP voltage range / rated input voltage                                                       | 200 V - 1000 V / 630 V                                                    |                  |                  |
|                         | Min. input voltage                                                                            | 200 V                                                                     |                  |                  |
|                         | Initial. feed-in voltage                                                                      | 250 V                                                                     |                  |                  |
|                         | Max. operating input current                                                                  | 32A                                                                       |                  |                  |
|                         | Max. short circuit current                                                                    | 48A                                                                       |                  |                  |
|                         | No. of independent MPPT inputs / strings per MPPT input                                       | 4 / 2                                                                     | 4 / 2            | 5 / 2            |
| Output (AC)             | Rated active power                                                                            | 40000 W                                                                   | 45000 W          | 50000 W          |
|                         | Rated apparent power                                                                          | 40000 VA                                                                  | 45000 VA         | 50000 VA         |
|                         | Max. apparent power                                                                           | 40000 VA                                                                  | 45000 VA         | 50000 VA         |
|                         | AC nominal voltage                                                                            | 220 V / 380 V<br>230 V / 400 V                                            |                  |                  |
|                         | AC voltage range                                                                              | 180 V to 305 V / 312 V to 528 V                                           |                  |                  |
|                         | AC grid frequency / range                                                                     | 50 Hz / 45 Hz to 55 Hz<br>60 Hz / 55 Hz to 65 Hz                          |                  |                  |
|                         | Max. output current                                                                           | 66.7 A                                                                    | 75.0 A           | 80.0 A           |
|                         | Adjustable power factor range                                                                 | 0.8 leading to 0.8 lagging                                                |                  |                  |
| Efficiency & Protection | Feed-in phases                                                                                | 3 / 3-N-PE                                                                |                  |                  |
|                         | Harmonic distortion (THD) at rated output                                                     | < 3%                                                                      |                  |                  |
|                         | Max. efficiency / European efficiency                                                         | 98.6% / 98.3%                                                             |                  |                  |
|                         | DC switch                                                                                     | ●                                                                         |                  |                  |
|                         | Ground fault monitoring / grid monitoring                                                     | ● / ●                                                                     |                  |                  |
|                         | DC reverse polarity protection / AC short circuit protection                                  | ● / ●                                                                     |                  |                  |
|                         | All-pole-sensitive residual-current monitoring unit                                           | ●                                                                         |                  |                  |
|                         | Anti-islanding Protection                                                                     | ●                                                                         |                  |                  |
| General data            | Surge protection                                                                              | ● / Type II                                                               |                  |                  |
|                         | Protection class (according to IEC 62109-1) / overvoltage category (according to IEC 62109-1) | I / AC: III; DC: II                                                       |                  |                  |
|                         | Dimensions (W / H / D)                                                                        | 670 / 640 / 270 mm                                                        |                  |                  |
|                         | Weight                                                                                        | 43 kg                                                                     |                  |                  |
|                         | Operating temperature range                                                                   | -25°C ... +60°C                                                           |                  |                  |
|                         | Self-consumption (at night)                                                                   | < 1 W                                                                     |                  |                  |
|                         | Topology                                                                                      | Non-isolated                                                              |                  |                  |
|                         | Cooling concept                                                                               | Active cooling                                                            |                  |                  |
| Features                | Degree of protection (according to IEC 60529)                                                 | IP66                                                                      |                  |                  |
|                         | Climatic category (according to IEC 60721-3-4)                                                | 4K4H                                                                      |                  |                  |
|                         | Max. permissible value for relative humidity (non-condensing)                                 | 100%                                                                      |                  |                  |
|                         | Max. operating altitude                                                                       | 3000 m                                                                    |                  |                  |
|                         | DC connection                                                                                 | Plug-in connector                                                         |                  |                  |
|                         | AC connection                                                                                 | OT connector                                                              |                  |                  |
|                         | Mounting type                                                                                 | Wall-mount bracket                                                        |                  |                  |
|                         | LED indicators (Status / Fault / Communication)                                               | ●                                                                         |                  |                  |
| Features                | Communication interface                                                                       | ●/●/●/○<br>(RS485 /Wi-Fi/ LAN /4G)                                        |                  |                  |
|                         | Country of manufacture                                                                        | China                                                                     |                  |                  |
|                         | Certificates and approvals (more available on request)                                        | CE, EN50549 ,IEC62109, IEC62116, IEC61727, IEC61683, IEC61000, NB/T 32004 |                  |                  |

● Standard features / ○ optional features / – not available  
Data at nominal conditions. All information is subject to change.

# ASW LT-G3 Series



Models:  
ASW45K-LT-G3  
ASW50K-LT-G3  
ASW60K-LT-G3



### Easy-to-install

- Phoenix Contact connectors for reliable tool-free DC connection
- Compact wall mount design
- Fuse-free design thereby reducing BOS cost
- Setup, commissioning and monitoring via the Solplanet app



### Higher Yields

- 150 % PV array oversizing for higher yields
- Up to 5 MPPT's for flexible PV array design
- Max. 20 A input current per string, ideal for bifacial and large area PV modules
- ShadeSol - improved generation under non-ideal conditions



### Safe & reliable

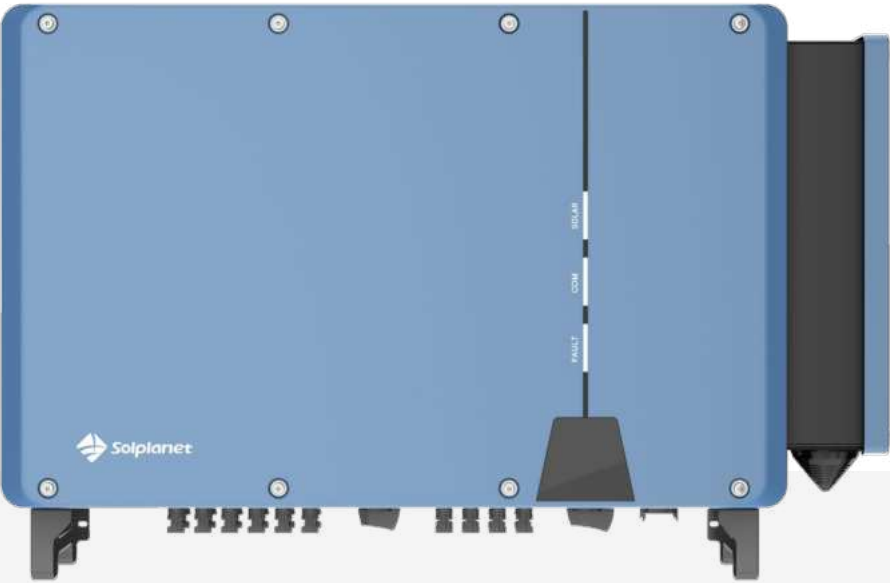
- Type II AC & DC Surge Protection
- Integrated DC switches
- IP66 rated design for outdoor use

### Technical Datasheet

|                         |                                                                                               | ASW45K-LT-G3                                                                           | ASW50K-LT-G3                     | ASW60K-LT-G3                     |
|-------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------|----------------------------------|
| Input (DC)              | Max. PV array power                                                                           | 67500 Wp STC                                                                           | 75000 Wp STC                     | 90000 Wp STC                     |
|                         | Max. input voltage                                                                            | 1100 V                                                                                 |                                  |                                  |
|                         | MPP voltage range / rated input voltage                                                       | 200 V - 1000 V / 630 V                                                                 |                                  |                                  |
|                         | Min. input voltage                                                                            | 200 V                                                                                  |                                  |                                  |
|                         | Initial. feed-in voltage                                                                      | 250 V                                                                                  |                                  |                                  |
|                         | Max. operating input current                                                                  | 40 A / 32 A / 32 A / 40 A                                                              | 40 A / 32 A / 32 A / 40 A / 32 A | 40 A / 32 A / 32 A / 40 A / 32 A |
|                         | Max. short circuit current                                                                    | 60 A / 48 A / 48 A / 60 A                                                              | 60 A / 48 A / 48 A / 60 A / 48 A | 60 A / 48 A / 48 A / 60 A / 48 A |
|                         | No. of independent MPPT inputs / strings per MPPT input                                       | 4 / 2                                                                                  | 5 / 2                            | 5 / 2                            |
| Output (AC)             | Rated active power                                                                            | 45000 W                                                                                | 50000 W                          | 60000 W                          |
|                         | Rated apparent power                                                                          | 45000 VA                                                                               | 50000 VA                         | 60000 VA                         |
|                         | Max. apparent power                                                                           | 45000 VA                                                                               | 50000 VA                         | 60000 VA                         |
|                         | AC nominal voltage                                                                            | 220 V / 380 V    230 V / 400 V                                                         |                                  |                                  |
|                         | AC voltage range                                                                              | 180 V to 305 V / 312 V to 528 V                                                        |                                  |                                  |
|                         | AC grid frequency / range                                                                     | 50 Hz / 45 Hz to 55 Hz<br>60 Hz / 55 Hz to 65 Hz                                       |                                  |                                  |
|                         | Max. output current                                                                           | 75.2 A                                                                                 | 83.6 A                           | 95.3 A                           |
|                         | Adjustable power factor range                                                                 | 0.8 leading to 0.8 lagging                                                             |                                  |                                  |
| Efficiency & Protection | Feed-in phases                                                                                | 3 / 3-N-PE                                                                             |                                  |                                  |
|                         | Harmonic distortion (THD) at rated output                                                     | < 3%                                                                                   |                                  |                                  |
|                         | Max. efficiency / European efficiency                                                         | 98.6% / 98.3%                                                                          |                                  |                                  |
|                         | DC switch                                                                                     | ●                                                                                      |                                  |                                  |
|                         | Ground fault monitoring / grid monitoring                                                     | ● / ●                                                                                  |                                  |                                  |
|                         | DC reverse polarity protection / AC short circuit protection                                  | ● / ●                                                                                  |                                  |                                  |
|                         | All-pole-sensitive residual-current monitoring unit                                           | ●                                                                                      |                                  |                                  |
|                         | Arc fault circuit interrupter (AFCI)                                                          | ○                                                                                      |                                  |                                  |
| General data            | Anti-islanding Protection                                                                     | ●                                                                                      |                                  |                                  |
|                         | Surge protection                                                                              | ● / Type II                                                                            |                                  |                                  |
|                         | Protection class (according to IEC 62109-1) / overvoltage category (according to IEC 62109-1) | I / AC: III; DC: II                                                                    |                                  |                                  |
|                         | Sunspec protocol                                                                              | ●                                                                                      |                                  |                                  |
|                         | Dimensions (W / H / D)                                                                        | 670 / 640 / 270 mm                                                                     |                                  |                                  |
|                         | Weight                                                                                        | 42.5 kg                                                                                |                                  |                                  |
|                         | Operating temperature range                                                                   | -25°C ... +60°C                                                                        |                                  |                                  |
|                         | Self-consumption (at night)                                                                   | < 1 W                                                                                  |                                  |                                  |
| Features                | Topology                                                                                      | Non-isolated                                                                           |                                  |                                  |
|                         | Cooling concept                                                                               | Active cooling                                                                         |                                  |                                  |
|                         | Degree of protection (according to IEC 60529)                                                 | IP66                                                                                   |                                  |                                  |
|                         | Climatic category (according to IEC 60721-3-4)                                                | 4K4H                                                                                   |                                  |                                  |
|                         | Relative humidity (non-condensing)                                                            | 100%                                                                                   |                                  |                                  |
|                         | Max. operating altitude                                                                       | 4000 m                                                                                 |                                  |                                  |
|                         | DC connection                                                                                 | Plug-in connector                                                                      |                                  |                                  |
|                         | AC connection                                                                                 | OT/DT Connector                                                                        |                                  |                                  |
| Features                | Mounting type                                                                                 | Wall-mount bracket                                                                     |                                  |                                  |
|                         | LED indicators (Status / Fault / Communication)                                               | ●                                                                                      |                                  |                                  |
|                         | 24/7 moitoring                                                                                | ●                                                                                      |                                  |                                  |
|                         | Communication interface                                                                       | ●/●/●/○<br>(RS485 /Wi-Fi/ LAN /4G)                                                     |                                  |                                  |
|                         | Country of manufacture                                                                        | China                                                                                  |                                  |                                  |
|                         | Certificates and approvals (more available on request)                                        | CE, IEC 62109-1/2,<br>IEC 61727,IEC 62116,IEC61683,G98/G99,VDE4110,VED4105,EN50549-1/2 |                                  |                                  |

● Standard features / ○ optional features / – not available  
1- Zero export installations supported with 2-pin RS485 for connection to approved smart meters

# ASW LT Series

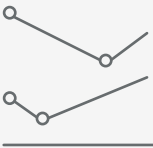


Models:  
ASW75K-LT  
ASW80K-LT  
ASW100K-LT  
ASW110K-LT



### Safe and Reliable

- TYPE II Surge Protection for DC&AC
- IP66 rated design for outdoor use
- Fuse free design



### Higher Yields

- ShadeSol shadow management
- 32A input current each MPPT, ideal for bifacial and large area PV modules
- 10 MPPTs for flexible PV array design for higher yields



### User-friendly

- Support 7\*24H monitoring
- Quick setup and commissioning with Solplanet Apps
- String-level Management

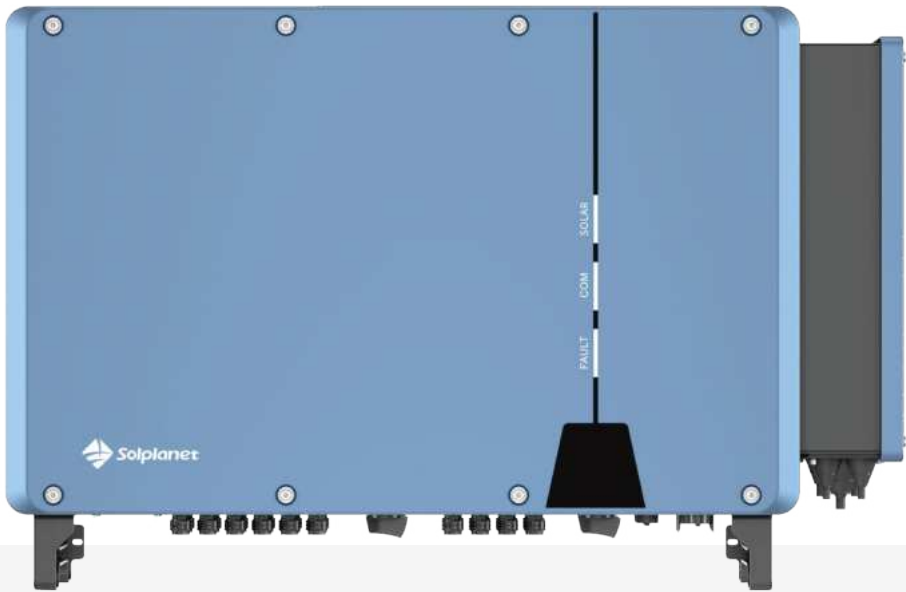
### Technical Datasheet

|                         |                                                                                               | ASW 75K-LT                                                                 | ASW 80K-LT    | ASW 100K-LT   | ASW 110K-LT   |
|-------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------|---------------|---------------|
| Input (DC)              | Max. PV array power                                                                           | 112500 Wp STC                                                              | 120000 Wp STC | 150000 Wp STC | 165000 Wp STC |
|                         | Max. input voltage                                                                            | 1100 V                                                                     |               |               |               |
|                         | MPP voltage range / rated input voltage                                                       | 200V - 1000 V / 630 V                                                      |               |               |               |
|                         | Min. input voltage                                                                            | 200 V                                                                      |               |               |               |
|                         | Initial. feed-in voltage                                                                      | 250 V                                                                      |               |               |               |
|                         | Max. operating input current                                                                  | 32 A                                                                       |               |               |               |
|                         | Max. short circuit current                                                                    | 48 A                                                                       |               |               |               |
|                         | No. of independent MPPT inputs / strings per MPPT input                                       | 8/2                                                                        | 8/2           | 10/2          | 10/2          |
| Output (AC)             | Rated active power                                                                            | 75000 W                                                                    | 80000 W       | 100000 W      | 110000 W      |
|                         | Rated appearant power                                                                         | 75000 VA                                                                   | 80000 VA      | 100000 VA     | 110000 VA     |
|                         | Max. apparent power                                                                           | 75000 W                                                                    | 88000 W       | 110000 W      | 121000 W      |
|                         | AC nominal voltage                                                                            | 220 V / 380 V    230 V / 400 V                                             |               |               |               |
|                         | AC voltage range                                                                              | 312 V - 528 V                                                              |               |               |               |
|                         | AC grid frequency / range                                                                     | 50 Hz / 45 Hz - 55 Hz<br>60 Hz / 55 Hz - 65 Hz                             |               |               |               |
|                         | AC nominal output current                                                                     | 114.0 A                                                                    | 115.8 A       | 144.3 A       | 158.8 A       |
|                         | Max. output current                                                                           | 114.0 A                                                                    | 127.0 A       | 158.8 A       | 174.7 A       |
|                         | Adjustable power factor range                                                                 | 0.8 leading to 0.8 lagging                                                 |               |               |               |
|                         | Feed-in phases                                                                                | 3 / 3-N-PE                                                                 |               |               |               |
| Efficiency & Protection | Harmonic distortion (THD) at rated output                                                     | < 3%                                                                       |               |               |               |
|                         | Max. efficiency / European efficiency                                                         | 98.6% / 98.4%                                                              |               |               |               |
|                         | DC switch                                                                                     | ●                                                                          |               |               |               |
|                         | Ground fault monitoring / grid monitoring                                                     | ● / ●                                                                      |               |               |               |
|                         | DC reverse polarity protection / AC short circuit protection                                  | ●                                                                          |               |               |               |
|                         | AC Overcurrent Protection                                                                     | ●                                                                          |               |               |               |
|                         | DC Surge Protection                                                                           | Type II                                                                    |               |               |               |
|                         | AC Surge Protection                                                                           | Type II                                                                    |               |               |               |
|                         | Residual Current Monitoring Unit                                                              | ●                                                                          |               |               |               |
|                         | Arc fault circuit interrupter (AFCI)                                                          | ○                                                                          |               |               |               |
|                         | Anti-islanding Protection                                                                     | ●                                                                          |               |               |               |
|                         | Protection class (according to IEC 62109-1) / overvoltage category (according to IEC 62109-1) | I / AC: III; DC: II                                                        |               |               |               |
| General data            | Dimensions (W / H / D)                                                                        | 984/ 640 / 330 mm                                                          |               |               |               |
|                         | Weight                                                                                        | 86 kg                                                                      |               |               |               |
|                         | Operating temperature range                                                                   | -25°C ... +60°C                                                            |               |               |               |
|                         | Self-consumption (at night)                                                                   | < 3 W                                                                      |               |               |               |
|                         | Topology                                                                                      | Non-isolated                                                               |               |               |               |
|                         | Cooling concept                                                                               | Active cooling                                                             |               |               |               |
|                         | Degree of protection (according to IEC 60529)                                                 | IP66                                                                       |               |               |               |
|                         | Climatic category (according to IEC 60721-3-4)                                                | 4K4H                                                                       |               |               |               |
|                         | Max. permissible value for relative humidity (non-condensing)                                 | 100%                                                                       |               |               |               |
|                         | Max. operating altitude                                                                       | 4000 m                                                                     |               |               |               |
| Features                | EMC                                                                                           | CLASS B                                                                    |               |               |               |
|                         | DC Connector                                                                                  | DC Plug-in connector                                                       |               |               |               |
|                         | AC Connector                                                                                  | OT/DT Terminal (Max.240mm2)                                                |               |               |               |
|                         | LED indicators (Status / Fault / Communication)                                               | ●                                                                          |               |               |               |
|                         | 24/7 moitoring                                                                                | ●                                                                          |               |               |               |
|                         | Communication interface                                                                       | ●/●/●/○<br>(RS485 /Wi-Fi/ LAN /4G)                                         |               |               |               |
|                         | Modbus-Sunspec protocol                                                                       | ●                                                                          |               |               |               |
|                         | Certificates and approvals (more available on request)                                        | CE, IEC 62109-1/2,<br>IEC 61727, IEC 62116, IEC61683, EN50549-1/2, VDE4105 |               |               |               |

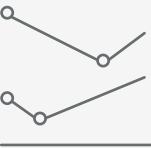
● standard features    ○ optional  
Data at nominal conditions. All information is subject to change.



# ASW LT Series



Models:  
ASW125K-LT



### Higher Yields

- Up to 40 A per MPPT, ideal for bi-facial and large area PV modules
- ShadeSol - improved generation under non-ideal conditions
- 110% overload



### Smart O&M

- String-level management
- Type I+II SPD surge protection for DC&AC
- Integrated DC switch
- PID recovery (optional)



### User-friendly

- IP66 rated design for indoor and outdoor use
- Intelligent arc fault detection (AFCI)
- Quick and easy-to-install with standard tools

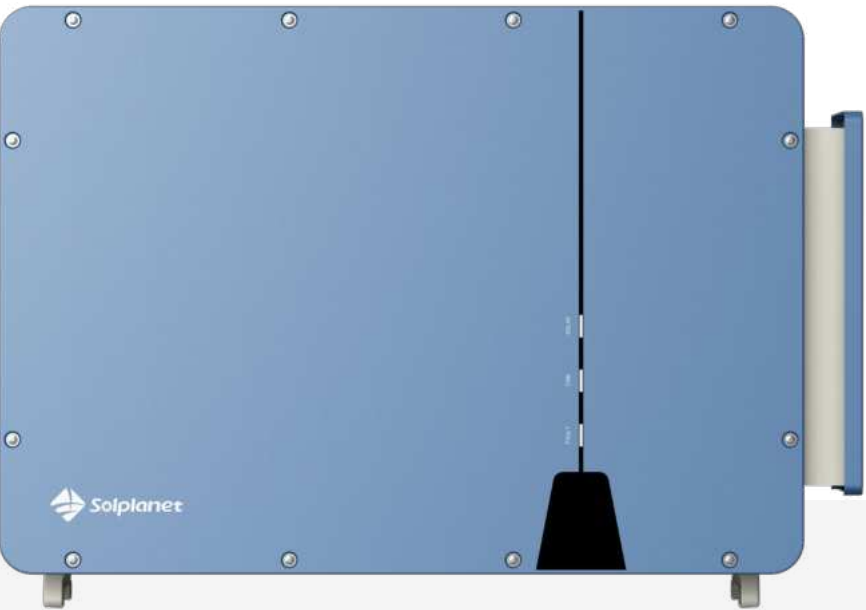
### Technical Datasheet

ASW 125K-LT

|                         |                                                                                               |                                                 |
|-------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|
| Input (DC)              | Max. PV array power                                                                           | 187500 Wp STC                                   |
|                         | Max. input voltage                                                                            | 1100 V                                          |
|                         | MPP voltage range / rated input voltage                                                       | 200 V - 1000 V / 630 V                          |
|                         | Min. input voltage                                                                            | 200 V                                           |
|                         | Initial. feed-in voltage                                                                      | 250 V                                           |
|                         | Max. operating input current                                                                  | 10 * 40 A                                       |
|                         | Max. short circuit current                                                                    | 10 * 50 A                                       |
|                         | No. of independent MPPT inputs / strings per MPPT input                                       | 10 / 2                                          |
| Output (AC)             | Rated active power                                                                            | 125000 W                                        |
|                         | Rated apparent power                                                                          | 125000 VA                                       |
|                         | Max. apparent power                                                                           | 137500 VA                                       |
|                         | AC nominal voltage                                                                            | 220 V / 380 V 230 V / 400 V                     |
|                         | AC voltage range                                                                              | 180 to 305 V / 312 V to 528 V                   |
|                         | AC grid frequency / range                                                                     | 50Hz / 60HZ<br>45Hz - 65Hz                      |
|                         | Nominal output current                                                                        | 190.0 A                                         |
|                         | Max. output current                                                                           | 209.0 A                                         |
|                         | Adjustable power factor range                                                                 | 0.8 leading to 0.8 lagging                      |
|                         | Feed-in phases                                                                                | 3 / 3-N-PE                                      |
| Efficiency & Protection | Harmonic distortion (THD) at rated output                                                     | ≤ 3 %                                           |
|                         | Max. efficiency / European efficiency                                                         | 98.6 % / 98.4 %                                 |
|                         | DC switch                                                                                     | ●                                               |
|                         | Ground fault monitoring                                                                       | ●                                               |
|                         | Grid monitoring                                                                               | ●                                               |
|                         | DC reverse polarity protection                                                                | ●                                               |
|                         | AC short-circuit protection                                                                   | ●                                               |
|                         | All-pole-sensitive residual-current monitoring unit                                           | ●                                               |
|                         | Anti-islanding protection                                                                     | ●                                               |
|                         | DC surge protection                                                                           | Type II: ●                                      |
|                         |                                                                                               | Type I+II: ○                                    |
|                         | AC surge protection                                                                           | Type I+II: ○                                    |
|                         | Arc Fault circuit interrupter (AFCI)                                                          | ●                                               |
|                         | PID recovery                                                                                  | ○                                               |
|                         | Protection class (according to IEC 62109-1) / Overvoltage category (according to IEC 62109-1) | I / AC: III; DC: II                             |
|                         | Sunspec protocol (RTU)                                                                        | ●                                               |
| General data            | Dimensions (W / H / D)                                                                        | 984 / 640 / 330 mm                              |
|                         | Weight                                                                                        | 87.0 kg                                         |
|                         | Operating temperature range                                                                   | -30°C ... +60°C                                 |
|                         | Self-consumption (at night)                                                                   | < 5 W                                           |
|                         | Topology                                                                                      | Non-isolated                                    |
|                         | Cooling concept                                                                               | Active cooling                                  |
|                         | Degree of protection (according to IEC 60529)                                                 | IP66                                            |
|                         | Climatic category (according to IEC 60721-3-4)                                                | 4K4H                                            |
|                         | Relative humidity (non-condensing)                                                            | 100%                                            |
|                         | Max. operating altitude                                                                       | 4000 m                                          |
| Features                | DC connection                                                                                 | Sunclix                                         |
|                         | AC connection                                                                                 | OT/DT Connector                                 |
|                         | LED indicators (Status / Fault / Communication)                                               | ●                                               |
|                         | Communication interface                                                                       | ●/●/●/○<br>(RS485 /Wi-Fi/ LAN /4G)              |
|                         | Certificates and approvals (more available on request)                                        | CE,IEC 62109-1/2,<br>IEC 63027,IEC61727,EN50549 |

● standard features   ○ optional features   - not available

# ASW HT Series



Models:  
ASW250K-HT  
ASW333K-HT  
ASW350K-HT  
ASW360K-HT



### Safe & reliable

- ABUS to enhance communication stability and reduce cable costs
- Designed to operate in challenging global environmental conditions
- DC connector and AC terminal temperature detection
- High operation capability in weak grid
- Smart DC connector disconnection



### Minimizing LCOE

- Maximizing yield by leading conversion efficiency > 99%
- Compatible with max. 500mm<sup>2</sup> AC cables
- Night and day time reactive power control
- 75A per MPPT, compatible with high current PV modules



### Smart O&M

- Secured and reliable remote firmware upgrade simplifying long-term operation
- Smart I-V Curve tracing for easy diagnostics
- Smart self-cleaning fans
- Anti-PID solution to mitigate PV module degradation

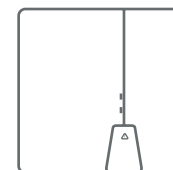
| Technical Datasheet         |                                                         | ASW250K-HT                                                            | ASW320K-HT           | ASW330K-HT                          | ASW360K-HT                           |
|-----------------------------|---------------------------------------------------------|-----------------------------------------------------------------------|----------------------|-------------------------------------|--------------------------------------|
| Input (DC)                  | Max. input voltage                                      | 1500V                                                                 |                      |                                     |                                      |
|                             | MPP voltage range / rated input voltage                 | 500V - 1500 V / 1080 V                                                |                      |                                     |                                      |
|                             | Min. input voltage                                      | 500 V                                                                 |                      |                                     |                                      |
|                             | Start up input voltage                                  | 550 V                                                                 |                      |                                     |                                      |
|                             | Max. operating input current per MPP                    | 75 A                                                                  |                      |                                     |                                      |
|                             | Max. short circuit current per MPP                      | 113 A                                                                 |                      |                                     |                                      |
|                             | No. of independent MPPT inputs / strings per MPPT input | 5 / 5                                                                 | 6 / 5                |                                     |                                      |
| Output (AC)                 | AC output power                                         | 250000 VA @ 50°C                                                      | 333000 VA @ 40°C     | 352000 VA @30°C<br>320000 VA @ 40°C | 363000 VA @ 30°C<br>330000 VA @ 40°C |
|                             | AC nominal voltage                                      | 800 V                                                                 |                      |                                     |                                      |
|                             | AC voltage range                                        | 640 V - 920 V                                                         |                      |                                     |                                      |
|                             | AC grid frequency / range                               | 50 Hz / 45 Hz - 55 Hz                                                 |                      |                                     |                                      |
|                             |                                                         | 60 Hz / 55 Hz - 65 Hz                                                 |                      |                                     |                                      |
|                             | Max. output current                                     | 198.5 A                                                               | 240.3 A              | 254.0 A                             | 262.0 A                              |
|                             | Adjustable power factor range                           | 0.8 leading to 0.8 lagging                                            |                      |                                     |                                      |
|                             | Feed-in phases                                          | 3 / 3-PE                                                              |                      |                                     |                                      |
|                             | THD                                                     | < 3%                                                                  |                      |                                     |                                      |
| Effi-<br>ciency             | Max. efficiency / European efficiency                   | 99.01 % / 98.52 %                                                     |                      |                                     |                                      |
| Efficiency & Protection     | Smart DC switch                                         | ●                                                                     |                      |                                     |                                      |
|                             | AC / DC temprature detection                            | ●                                                                     |                      |                                     |                                      |
|                             | Anti-islanding protection                               | ●                                                                     |                      |                                     |                                      |
|                             | AC overcurrent protection                               | ●                                                                     |                      |                                     |                                      |
|                             | DC reverse-polarity protection                          | ●                                                                     |                      |                                     |                                      |
|                             | AC short circuit protection                             | ●                                                                     |                      |                                     |                                      |
|                             | PV string monitoring                                    | ●                                                                     |                      |                                     |                                      |
|                             | DC surge protection                                     | Type II                                                               |                      |                                     |                                      |
|                             | AC surge protection                                     | Type II                                                               |                      |                                     |                                      |
|                             | Residual Current Monitoring Unit (RCMU)                 | ●                                                                     |                      |                                     |                                      |
|                             | Ground fault monitoring                                 | ●                                                                     |                      |                                     |                                      |
|                             | Grid monitoring                                         | ●                                                                     |                      |                                     |                                      |
|                             | Anti-PID                                                | ○                                                                     |                      |                                     |                                      |
|                             | General data                                            | Dimensions (W / H / D)                                                | 1,158 / 760 / 382 mm |                                     |                                      |
| Weight                      |                                                         | ≤ 116.0 kg                                                            | ≤ 117.0 kg           |                                     |                                      |
| Operating temperature range |                                                         | -30°C ... +60°C                                                       |                      |                                     |                                      |
| Self-consumption (at night) |                                                         | < 5 W                                                                 |                      |                                     |                                      |
| Topology                    |                                                         | Non-isolated                                                          |                      |                                     |                                      |
| Cooling concept             |                                                         | Smart forced cooling                                                  |                      |                                     |                                      |
| Protection degree           |                                                         | IP66                                                                  |                      |                                     |                                      |
| Relative humidity           |                                                         | 0~100% (non-condensing)                                               |                      |                                     |                                      |
| Max. operating altitude     |                                                         | 5000 m ( > 4000m with derating)                                       |                      |                                     |                                      |
| Features                    |                                                         | DC connector                                                          | DC Plug-in connector |                                     |                                      |
|                             | AC connector                                            | OT / DT Terminal (Max.500mm²)                                         |                      |                                     |                                      |
|                             | Display                                                 | LED, Bluetooth + APP                                                  |                      |                                     |                                      |
|                             | USB                                                     | ●                                                                     |                      |                                     |                                      |
|                             | Communication                                           | RS485 / ABUS                                                          |                      |                                     |                                      |
| Com-<br>pliance             | Certificates and approvals (more available on request)  | IEC 62109-1/2, IEC 61727, IEC 62116, IEC 61683, IEC 60086, EN 50549-2 |                      |                                     |                                      |

● standard features    ○ optional features



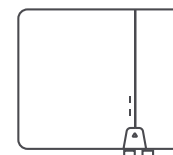
# Hybrid Inverters

Perfect for home  
& small commercial and  
industrial applications



ASW H-S2 SERIES

ASW3000 / 3680 / 4000 /  
5000 / 6000H-S2

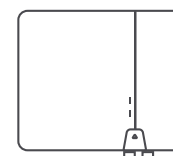


ASW H-T2 SERIES

ASW05k / 06k / 08k / 10k / 12kH-T2  
ASW05k / 06k / 08k / 10k / 12kH-T2-O

ASW H-T3 SERIES

ASW08k / 10k / 12kH-T3  
ASW08k / 10k / 12kH-T3-O

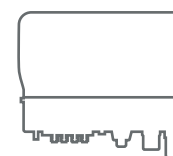


ASW H-T2-DG SERIES

ASW05k / 06k / 08k / 10k / 12kH-T2-DG

ASW H-T3-DG SERIES

ASW08k / 10k / 12kH-T3-DG



ASW TH SERIES

ASW015K / 020K / 025K / 29.9K / 030K-TH



ASW A-S SERIES

|                 |                 |
|-----------------|-----------------|
| ASW0600/1250A-S | ASW0600/2500A-S |
| ASW0800/1250A-S | ASW0800/2500A-S |
| ASW1000/1250A-S | ASW1000/2500A-S |



Single phase hybrid inverters 3 to 6 kW

# ASW H-S2 Series



Models:  
ASW3000H-S2  
ASW3680H-S2  
ASW4000H-S2  
ASW5000H-S2  
ASW6000H-S2



### Easy-to-install

- Quick & easy-to-install with basic tools
- Quick setup and commissioning with Solplanet apps
- Compact wall mount design



### Safe & reliable

- Smart energy management
- UPS capability - power during blackouts
- IP66 rated design for outdoor use



### User-friendly

- User friendly app interface
- Online monitoring via Wi-Fi and Solplanet apps
- ShadeSol shadow management

## Technical Datasheet

|                   |                                                                                   | ASW3000H-S2                        | ASW3680H-S2 | ASW4000H-S2 | ASW5000H-S2 | ASW6000H-S2 |
|-------------------|-----------------------------------------------------------------------------------|------------------------------------|-------------|-------------|-------------|-------------|
| PV Input          | Max. PV array power                                                               | 5500 Wp STC                        | 6180 Wp STC | 6500 Wp STC | 7500 Wp STC | 9000 Wp STC |
|                   | Max. input voltage                                                                | 550 V                              |             |             |             |             |
|                   | MPP voltage range / rated input voltage                                           | 40 V to 530 V / 380 V              |             |             |             |             |
|                   | Min. input voltage / start voltage                                                | 40 V/ 50 V                         |             |             |             |             |
|                   | No. of independent MPPT trackers / strings per MPPT input                         | 2 / 1                              |             |             |             |             |
|                   | Max. input current per MPP tracker                                                | 16 A                               |             |             |             |             |
|                   | Max. short-circuit current per MPP tracker                                        | 20 A                               |             |             |             |             |
| Battery input     | Nominal battery voltage                                                           | 48 V                               |             |             |             |             |
|                   | Battery voltage range                                                             | 40 V to 60 V                       |             |             |             |             |
|                   | Max. charging / discharging power                                                 | 5000 W / 5000 W                    |             |             |             |             |
|                   | Max. charging current / Max. discharging current                                  | 100 A / 100A                       |             |             |             |             |
|                   | Battery type                                                                      | LiFePO4                            |             |             |             |             |
| AC output         | Compatible Battery                                                                | Aiswei Ai-LB series*3              |             |             |             |             |
|                   | AC voltage range / Nominal AC voltage                                             | 180 V to 280 V / 230 V             |             |             |             |             |
|                   | Rated AC grid frequency                                                           | 50 Hz / 60 Hz                      |             |             |             |             |
|                   | AC grid frequency range                                                           | 50 Hz±5Hz / 60 Hz±5Hz              |             |             |             |             |
|                   | Rated active power                                                                | 3000 W                             | 3680 W      | 4000 W      | 5000 W*1    | 6000 W      |
|                   | Rated apparent power                                                              | 3000 VA                            | 3680 VA     | 4000 VA     | 5000 VA*1   | 6000 VA     |
|                   | Max. apparent power                                                               | 3000 VA                            | 3680 VA     | 4000 VA     | 5000 VA*1   | 6000 VA     |
|                   | Rated grid output Current (@230V)                                                 | 13.1 A                             | 16 A        | 17.4 A      | 21.7 A*2    | 26.1 A      |
|                   | Max. grid output current                                                          | 13.6 A                             | 16 A        | 18.2 A      | 22.7 A*2    | 27.3 A      |
|                   | Harmonics THDi (@ Nominal power)                                                  | < 3%                               |             |             |             |             |
| AC input          | Rated grid voltage                                                                | a.c. 230V                          |             |             |             |             |
|                   | Rated apparent power                                                              | 6000 VA                            |             |             |             |             |
|                   | Max. input apparent power from grid                                               | 6000 VA                            |             |             |             |             |
|                   | Rated input current from grid                                                     | a.c. 26.1 A                        |             |             |             |             |
|                   | Max. input current from grid                                                      | a.c. 27.3 A                        |             |             |             |             |
| EPS output        | Nominal output voltage                                                            | 230 V                              |             |             |             |             |
|                   | Nominal output frequency                                                          | 50 Hz / 60 Hz                      |             |             |             |             |
|                   | Rated apparent power                                                              | 5000 VA                            |             |             |             |             |
|                   | Max. output apparent power                                                        | 5000 VA                            |             |             |             |             |
|                   | Peak output apparent power                                                        | 7500 VA, 10s                       |             |             |             |             |
|                   | Rated Current (@230V)                                                             | 21.7A                              |             |             |             |             |
|                   | Max. output current                                                               | 21.7A                              |             |             |             |             |
|                   | Max. switch time                                                                  | ≤ 10 ms                            |             |             |             |             |
| Effi-<br>ciency   | Output THDi (@ Linear load)                                                       | <3%                                |             |             |             |             |
|                   | MPPT efficiency                                                                   | 99.90%                             |             |             |             |             |
|                   | Euro efficiency / Max. efficiency                                                 | 97% / 97.6%                        |             |             |             |             |
| Safety protection | Max. battery to load efficiency                                                   | 94.70%                             |             |             |             |             |
|                   | DC-side disconnection device                                                      | ●                                  |             |             |             |             |
|                   | PV string- / Battery input reverse polarity protection                            | ● / ●                              |             |             |             |             |
|                   | All-pole sensitive residual current monitoring unit                               | ●                                  |             |             |             |             |
|                   | Anti-islanding protection                                                         | ●                                  |             |             |             |             |
|                   | Ground fault protection                                                           | ●                                  |             |             |             |             |
|                   | AC output over current / short circuit current protection                         | ● / ●                              |             |             |             |             |
|                   | AC over voltage protection                                                        | ●                                  |             |             |             |             |
|                   | Protection class (as per IEC 62109-1) / overvoltage category (as per IEC 62109-1) | I / AC: III; DC: II                |             |             |             |             |
| General data      | Power factor at rated power / adjustable displacement                             | ≥0.99 / 0.8 leading to 0.8 lagging |             |             |             |             |
|                   | Dimensions (W / H / D)                                                            | 483 / 455 / 193.5 mm               |             |             |             |             |
|                   | Device weight                                                                     | 25.1kg                             |             |             |             |             |
|                   | Operating temperature range                                                       | -25 °C ... +60 °C                  |             |             |             |             |
|                   | Noise emissions (typical)                                                         | 30 dB(A)                           |             |             |             |             |
|                   | Standby consumption                                                               | < 10 W                             |             |             |             |             |
|                   | Cooling concept                                                                   | Natural convection                 |             |             |             |             |
|                   | Degree of protection (as per IEC 60529)                                           | IP66                               |             |             |             |             |
|                   | Climatic category (according to IEC 60721-3-4)                                    | 4K4H                               |             |             |             |             |
|                   | Max. permissible value for relative humidity (non-condensing)                     | 100%                               |             |             |             |             |
|                   | Max. operating altitude                                                           | 4000m (>3000m power derating)      |             |             |             |             |
|                   | Country of manufacture                                                            | THE PEOPLE'S REPUBLIC OF CHINA     |             |             |             |             |
| Features          | User interface                                                                    | LED & App                          |             |             |             |             |
|                   | Communication with BMS                                                            | CAN                                |             |             |             |             |
|                   | Communication with meter                                                          | RS485                              |             |             |             |             |
|                   | Communication with portal                                                         | WIFI stick / LAN                   |             |             |             |             |
|                   | Other communication                                                               | DRM                                |             |             |             |             |
|                   | Integrated power control / Zero export control                                    | ● / ●                              |             |             |             |             |

● Standard features / ○ optional features / – not available

\*1 For VDE-AR-N4105, Smax=Sn=4600VA, Pn=4600W

\*2 For AS/NZS4777.2, Iac max=21.7A

\*3 Including but not limited to the listed models, please check the website@solplanet for more compatible models

Three phase hybrid inverters 5 to 12 kW

# ASW H-T2 Series



- Models (w/ EPS):  
ASW05kH-T2  
ASW06kH-T2  
ASW08kH-T2  
ASW10kH-T2  
ASW12kH-T2
- Models (w/o EPS):  
ASW05kH-T2-O  
ASW06kH-T2-O  
ASW08kH-T2-O  
ASW10kH-T2-O  
ASW12kH-T2-O



### Easy-to-install

- Quick & easy-to-install with basic tools
- Compact wall mount design
- Simple battery and smart meter interfaces for quick and secure installation



### Safe & reliable

- Up to 150 % PV array oversizing for higher yields
- Available with or without asymmetrical power output<sup>1)</sup>
- UPS level switching time < 10 ms
- IP66 rated design for outdoor use



### User-friendly

- Setup, commissioning and monitoring via the Solplanet app
- Intelligent work modes and customisable battery management for DOD /Time of Use/Power setting
- Max. 20 A input current, ideal for bifacial and large PV modules

### Technical Datasheet

|                   |                                                                             |                                                                      |          |                 |          |                                      |          |          |          |          |          |
|-------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------|----------|-----------------|----------|--------------------------------------|----------|----------|----------|----------|----------|
| PV input          | Max. PV array power                                                         | 7500 Wp                                                              |          | 9000 Wp         |          | 12000 Wp                             |          | 15000 Wp |          | 18000 Wp |          |
|                   | Max. input voltage                                                          | 1100 V                                                               |          |                 |          |                                      |          |          |          |          |          |
|                   | MPP voltage range / rated input voltage                                     | 150 V to 950 V / 630 V                                               |          |                 |          | 200 V to 950 V / 630 V <sup>2)</sup> |          |          |          |          |          |
|                   | Min. input voltage / start voltage                                          | 60 V / 180 V                                                         |          |                 |          |                                      |          |          |          |          |          |
|                   | No. of independent MPPT trackers / strings per MPPT input                   | 2 / 1                                                                |          |                 |          |                                      |          |          |          |          |          |
|                   | Max. input current / Max. power per MPP tracker                             | 20 A                                                                 | 7500 W   | 20 A            | 9000 W   | 20 A                                 | 10000 W  | 20 A     | 10000 W  | 20 A     | 10000 W  |
|                   | Max. short-circuit current per MPP tracker                                  | 30 A                                                                 |          |                 |          |                                      |          |          |          |          |          |
| Battery input     | Battery voltage range                                                       | 120 V to 600 V                                                       |          |                 |          |                                      |          |          |          |          |          |
|                   | Max. charging / discharging power                                           | 5000 W                                                               |          | 6000 W          |          | 8000 W                               |          | 10000 W  |          | 12000 W  |          |
|                   | Max. charging current / Max. discharging current                            | 30A                                                                  |          |                 |          |                                      |          |          |          |          |          |
|                   | Battery type                                                                | LiFePO4                                                              |          |                 |          |                                      |          |          |          |          |          |
| AC input          | Rated grid voltage                                                          | 3/N/PE, 220 V / 380 V; 230 V / 400 V; 240 V / 415 V                  |          |                 |          |                                      |          |          |          |          |          |
|                   | Rated grid frequency                                                        | 50 Hz / 60 Hz                                                        |          |                 |          |                                      |          |          |          |          |          |
|                   | Max. input power from grid                                                  | 10000 W                                                              |          | 12000 W         |          | 16000 W                              |          | 20000 W  |          | 24000 W  |          |
|                   | Max. input current from grid                                                | 14.5 A                                                               |          | 17.4 A          |          | 23.2 A                               |          | 29.0 A   |          | 34.8 A   |          |
| AC output         | AC voltage range / Nominal AC voltage                                       | 270 V to 480 V / 3/N/PE, 220 V / 380 V; 230 V / 400 V; 240 V / 415 V |          |                 |          |                                      |          |          |          |          |          |
|                   | Rated AC grid frequency                                                     | 50 Hz / 60 Hz                                                        |          |                 |          |                                      |          |          |          |          |          |
|                   | AC grid frequency range                                                     | 45 ~ 55 Hz / 55 ~ 65 Hz                                              |          |                 |          |                                      |          |          |          |          |          |
|                   | Rated apparent power                                                        | 5000 VA                                                              |          | 6000 VA         |          | 8000 VA                              |          | 10000 VA |          | 12000 VA |          |
|                   | Max. apparent power                                                         | 5000 VA                                                              |          | 6000 VA         |          | 8000 VA                              |          | 10000 VA |          | 12000 VA |          |
|                   | Rated grid output current (@400 V)                                          | 7.3 A                                                                |          | 8.7 A           |          | 11.6 A                               |          | 14.5 A   |          | 17.4 A   |          |
|                   | Max. grid output current (@400 V)                                           | 8.0 A                                                                |          | 9.6 A           |          | 12.8 A                               |          | 16.0 A   |          | 19.2 A   |          |
|                   | Harmonics THDi (@Nominal power)                                             | < 3 % (of nominal power)                                             |          |                 |          |                                      |          |          |          |          |          |
| EPS output        | Nominal output voltage                                                      | 3/N/PE, 220 V / 380 V; 230 V / 400 V; 240 V / 415 V                  |          |                 |          |                                      |          |          |          |          |          |
|                   | Nominal output frequency                                                    | 50 Hz / 60 Hz                                                        |          |                 |          |                                      |          |          |          |          |          |
|                   | Rated apparent power                                                        | 5000 VA                                                              |          | 6000 VA         |          | 8000 VA                              |          | 10000 VA |          | 12000 VA |          |
|                   | Rated current (@400 V)                                                      | 7.3 A                                                                |          | 8.7 A           |          | 11.6 A                               |          | 14.5 A   |          | 17.4 A   |          |
|                   | Max. current (@400 V, continuous on-grid / off-grid)                        | 14.5 A                                                               | 7.3 A    | 17.4 A          | 8.7 A    | 23.2 A                               | 11.6 A   | 29.0 A   | 14.5 A   | 34.8 A   | 17.4 A   |
|                   | Max. power on each phase(@400 V, continuous on-grid / off-grid)             | 3333 W                                                               | 1667 W   | 4000 W          | 2000 W   | 5333 W                               | 2667 W   | 6667 W   | 3333 W   | 8000 W   | 4000 W   |
|                   | Peak output apparent power(@400 V, continuous on-grid / off-grid up to 10s) | 10000 VA                                                             | 10000 VA | 12000 VA        | 12000 VA | 16000 VA                             | 16000 VA | 20000 VA | 20000 VA | 24000 VA | 24000 VA |
|                   | Max. switch time                                                            | < 10 ms                                                              |          |                 |          |                                      |          |          |          |          |          |
|                   | Output THDv (@Linear load)                                                  | 2 %                                                                  |          |                 |          |                                      |          |          |          |          |          |
| Effi-<br>ciency   | MPPT efficiency                                                             | 99.9 %                                                               |          |                 |          |                                      |          |          |          |          |          |
|                   | Euro efficiency / Max. efficiency                                           | 97.2 % / 98.0 %                                                      |          | 97.5 % / 98.2 % |          | 97.9 % / 98.4 %                      |          |          |          |          |          |
| Safety protection | DC surge protection (Type II, according to EN/IEC 61643-11)                 | ●                                                                    |          |                 |          |                                      |          |          |          |          |          |
|                   | Insulation resistance detection                                             | ●                                                                    |          |                 |          |                                      |          |          |          |          |          |
|                   | PV string input reverse polarity protection                                 | ●                                                                    |          |                 |          |                                      |          |          |          |          |          |
|                   | Battery input reverse polarity protection                                   | ●                                                                    |          |                 |          |                                      |          |          |          |          |          |
|                   | Ground fault monitoring                                                     | ●                                                                    |          |                 |          |                                      |          |          |          |          |          |
|                   | Residual current monitoring unit                                            | ●                                                                    |          |                 |          |                                      |          |          |          |          |          |
|                   | AC short circuit protection                                                 | ●                                                                    |          |                 |          |                                      |          |          |          |          |          |
|                   | Anti-islanding protection                                                   | ●                                                                    |          |                 |          |                                      |          |          |          |          |          |
| General data      | Power factor at rated power / adjustable displacement                       | 1 / 0.8 leading to 0.8 lagging                                       |          |                 |          |                                      |          |          |          |          |          |
|                   | Dimensions (W / H / D)                                                      | 545 mm / 465 mm / 205 mm                                             |          |                 |          |                                      |          |          |          |          |          |
|                   | Weight                                                                      | 24.5 kg                                                              |          |                 |          |                                      |          |          |          |          |          |
|                   | Operating temperature range                                                 | -25 °C ... +60 °C                                                    |          |                 |          |                                      |          |          |          |          |          |
|                   | Cooling concept                                                             | Natural convection                                                   |          |                 |          |                                      |          |          |          |          |          |
|                   | Noise emission                                                              | < 35 dB                                                              |          |                 |          |                                      |          |          |          |          |          |
|                   | Degree of protection (as per IEC 60529)                                     | IP66                                                                 |          |                 |          |                                      |          |          |          |          |          |
|                   | Max. relative humidity                                                      | 100 %                                                                |          |                 |          |                                      |          |          |          |          |          |
|                   | Max. operating altitude                                                     | 4000 m                                                               |          |                 |          |                                      |          |          |          |          |          |
| Features          | User interface                                                              | LED & App                                                            |          |                 |          |                                      |          |          |          |          |          |
|                   | BMS interface                                                               | CAN                                                                  |          |                 |          |                                      |          |          |          |          |          |
|                   | Smart meter interface                                                       | RS485                                                                |          |                 |          |                                      |          |          |          |          |          |
|                   | Internet communication interfaces                                           | Wifi / LAN                                                           |          |                 |          |                                      |          |          |          |          |          |
|                   | Digital output (dry contact) / No. of outputs                               | ● / 2                                                                |          |                 |          |                                      |          |          |          |          |          |
|                   | Digital input (dry contact) / No. of inputs                                 | ● / 4                                                                |          |                 |          |                                      |          |          |          |          |          |
|                   | Integrated power control / export power control                             | ● / ●                                                                |          |                 |          |                                      |          |          |          |          |          |

● standard features   ○ optional features   - not available  
1) Asymmetrical power output functionality released in August 2024, please confirm version with Solplanet's sales staff before purchase.  
2) The latest optimised platform design supports MPP voltage range at 150V-950V, pending subsequent certificate updates.

Technical Datasheet

|                   |                                                             |                                                                      |        |                 |        |                                      |         |          |         |          |         |
|-------------------|-------------------------------------------------------------|----------------------------------------------------------------------|--------|-----------------|--------|--------------------------------------|---------|----------|---------|----------|---------|
| PV input          | Max. PV array power                                         | 7500 Wp                                                              |        | 9000 Wp         |        | 12000 Wp                             |         | 15000 Wp |         | 18000 Wp |         |
|                   | Max. input voltage                                          | 1100 V                                                               |        |                 |        |                                      |         |          |         |          |         |
|                   | MPP voltage range / rated input voltage                     | 150 V to 950 V / 630 V                                               |        |                 |        | 200 V to 950 V / 630 V <sup>2)</sup> |         |          |         |          |         |
|                   | Min. input voltage / start voltage                          | 60 V / 180 V                                                         |        |                 |        |                                      |         |          |         |          |         |
|                   | No. of independent MPPT trackers / strings per MPPT input   | 2 / 1                                                                |        |                 |        |                                      |         |          |         |          |         |
|                   | Max. input current / Max. power per MPP tracker             | 20 A                                                                 | 7500 W | 20 A            | 9000 W | 20 A                                 | 10000 W | 20 A     | 10000 W | 20 A     | 10000 W |
|                   | Max. short-circuit current per MPP tracker                  | 30 A                                                                 |        |                 |        |                                      |         |          |         |          |         |
| Battery input     | Battery voltage range                                       | 120 V to 600 V                                                       |        |                 |        |                                      |         |          |         |          |         |
|                   | Max. charging / discharging power                           | 5000 W                                                               |        | 6000 W          |        | 8000 W                               |         | 10000 W  |         | 12000 W  |         |
|                   | Max. charging current / Max. discharging current            | 30 A                                                                 |        |                 |        |                                      |         |          |         |          |         |
|                   | Battery type                                                | LiFePO4                                                              |        |                 |        |                                      |         |          |         |          |         |
| AC input          | Rated grid voltage                                          | 3/N/PE, 220 V / 380 V; 230 V / 400 V; 240 V / 415 V                  |        |                 |        |                                      |         |          |         |          |         |
|                   | Rated grid frequency                                        | 50 Hz / 60 Hz                                                        |        |                 |        |                                      |         |          |         |          |         |
|                   | Max. input power from grid                                  | 5000 W                                                               |        | 6000 W          |        | 8000 W                               |         | 10000 W  |         | 12000 W  |         |
|                   | Max. input current from grid                                | 7.3 A                                                                |        | 8.7 A           |        | 11.6 A                               |         | 14.5 A   |         | 17.4 A   |         |
| AC output         | AC voltage range / Nominal AC voltage                       | 270 V to 480 V / 3/N/PE, 220 V / 380 V; 230 V / 400 V; 240 V / 415 V |        |                 |        |                                      |         |          |         |          |         |
|                   | Rated AC grid frequency                                     | 50 Hz / 60 Hz                                                        |        |                 |        |                                      |         |          |         |          |         |
|                   | AC grid frequency range                                     | 45~55 Hz / 55~65 Hz                                                  |        |                 |        |                                      |         |          |         |          |         |
|                   | Rated apparent power                                        | 5000 VA                                                              |        | 6000 VA         |        | 8000 VA                              |         | 10000 VA |         | 12000 VA |         |
|                   | Max. apparent power                                         | 5000 VA                                                              |        | 6000 VA         |        | 8000 VA                              |         | 10000 VA |         | 12000 VA |         |
|                   | Rated grid output Current current (@400 V)                  | 7.3 A                                                                |        | 8.7 A           |        | 11.6 A                               |         | 14.5 A   |         | 17.4 A   |         |
|                   | Max. grid output current(@400 V)                            | 8.0 A                                                                |        | 9.6 A           |        | 12.8 A                               |         | 16.0 A   |         | 19.2 A   |         |
|                   | Harmonics THDi (@ Nominal power)                            | < 3 % (of nominal power)                                             |        |                 |        |                                      |         |          |         |          |         |
| Effi-<br>ciency   | MPPT efficiency                                             | 99.9 %                                                               |        |                 |        |                                      |         |          |         |          |         |
|                   | Euro efficiency / Max. efficiency                           | 97.2 % / 98.0 %                                                      |        | 97.5 % / 98.2 % |        | 97.9 % / 98.4 %                      |         |          |         |          |         |
| Safety protection | DC surge protection( Type II, according to EN/IEC 61643-11) | ●                                                                    |        |                 |        |                                      |         |          |         |          |         |
|                   | Insulation resistance detection                             | ●                                                                    |        |                 |        |                                      |         |          |         |          |         |
|                   | PV string input reverse polarity protection                 | ●                                                                    |        |                 |        |                                      |         |          |         |          |         |
|                   | Battery input reverse polarity protection                   | ●                                                                    |        |                 |        |                                      |         |          |         |          |         |
|                   | Ground fault monitoring                                     | ●                                                                    |        |                 |        |                                      |         |          |         |          |         |
|                   | Residual current monitoring unit                            | ●                                                                    |        |                 |        |                                      |         |          |         |          |         |
|                   | AC short circuit protection                                 | ●                                                                    |        |                 |        |                                      |         |          |         |          |         |
|                   | Anti-islanding protection                                   | ●                                                                    |        |                 |        |                                      |         |          |         |          |         |
| General data      | Power factor at rated power / adjustable displacement       | 1 / 0.8 leading to 0.8 lagging                                       |        |                 |        |                                      |         |          |         |          |         |
|                   | Dimensions (W / H / D)                                      | 545 mm / 465 mm / 205 mm                                             |        |                 |        |                                      |         |          |         |          |         |
|                   | Weight                                                      | 24.5 kg                                                              |        |                 |        |                                      |         |          |         |          |         |
|                   | Operating temperature range                                 | -25 °C ... +60 °C                                                    |        |                 |        |                                      |         |          |         |          |         |
|                   | Cooling concept                                             | Natural convection                                                   |        |                 |        |                                      |         |          |         |          |         |
|                   | Noise emission                                              | < 35 dB                                                              |        |                 |        |                                      |         |          |         |          |         |
|                   | Degree of protection (as per IEC 60529)                     | IP66                                                                 |        |                 |        |                                      |         |          |         |          |         |
|                   | Max. relative humidity                                      | 100%                                                                 |        |                 |        |                                      |         |          |         |          |         |
|                   | Max. operating altitude                                     | 4000 m                                                               |        |                 |        |                                      |         |          |         |          |         |
| Features          | User interface                                              | LED & App                                                            |        |                 |        |                                      |         |          |         |          |         |
|                   | BMS interface                                               | CAN                                                                  |        |                 |        |                                      |         |          |         |          |         |
|                   | Smart meter interface                                       | RS485                                                                |        |                 |        |                                      |         |          |         |          |         |
|                   | Internet communication interfaces                           | Wifi / LAN                                                           |        |                 |        |                                      |         |          |         |          |         |
|                   | Digital output (dry contact) / No. of outputs               | ● / 2                                                                |        |                 |        |                                      |         |          |         |          |         |
|                   | Digital input (dry contact) / No. of inputs                 | ● / 4                                                                |        |                 |        |                                      |         |          |         |          |         |
|                   | Integrated power control / export power control             | ● / ●                                                                |        |                 |        |                                      |         |          |         |          |         |

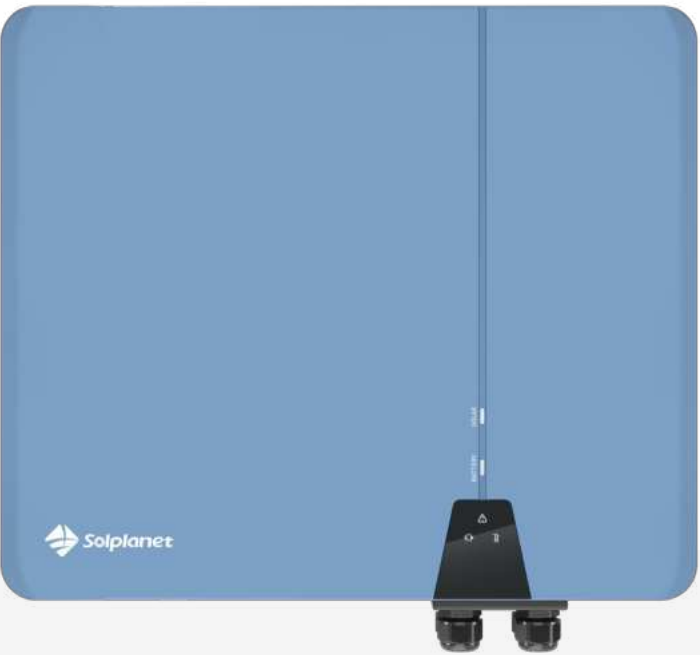
● standard features   ○ optional features   - not available

1) Asymmetrical power output functionality released in August 2024, please confirm version with Solplanet's sales staff before purchase.

2) The latest optimised platform design supports MPP voltage range at 150V-950V, pending subsequent certificate updates.

Three phase hybrid inverters 8 to 12 kW

# ASW H-T3 Series



Models (w/ EPS):  
ASW08kH-T3  
ASW10kH-T3  
ASW12kH-T3

Models (w/o EPS):  
ASW08kH-T3-O  
ASW10kH-T3-O  
ASW12kH-T3-O



### Easy-to-install

- Quick & easy-to-install with basic tools
- Compact wall mount design
- Simple battery and smart meter interfaces for quick and secure installation



### Safe & reliable

- Up to 150 % PV array oversizing for higher yields
- Available with or without asymmetrical power output<sup>1)</sup>
- UPS level switching time < 10 ms
- IP66 rated design for outdoor use



### User-friendly

- 3 independent MPPTs for flexible and higher kWp PV array design
- Setup, commissioning and monitoring via the Solplanet app
- Intelligent work modes and customisable battery management for DOD / Time of Use / Power setting
- Max. 16 A input current, ideal for bifacial and large PV modules



Technical Datasheet

|                   |                                                                             |                                                                    |          |                 |          |          |          |
|-------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------|----------|-----------------|----------|----------|----------|
| PV input          | Max. PV array power                                                         | 12000 Wp                                                           |          | 15000 Wp        |          | 18000 Wp |          |
|                   | Max. input voltage                                                          | 1100 V                                                             |          |                 |          |          |          |
|                   | MPP voltage range / rated input voltage                                     | 200 V to 950 V / 630 V <sup>2)</sup>                               |          |                 |          |          |          |
|                   | Min. input voltage / start voltage                                          | 60 V / 180 V                                                       |          |                 |          |          |          |
|                   | No. of independent MPPT trackers / strings per MPPT input                   | 3 / 1                                                              |          |                 |          |          |          |
|                   | Max. input current / Max. power per MPP tracker                             | 16 A                                                               | 10000 W  | 16 A            | 10000 W  | 16 A     | 10000 W  |
|                   | Max. short-circuit current per MPP tracker                                  | 24 A                                                               |          |                 |          |          |          |
| Battery input     | Battery voltage range                                                       | 120 V to 600 V                                                     |          |                 |          |          |          |
|                   | Max. charging / discharging power                                           | 8000 W                                                             |          | 10000 W         |          | 12000 W  |          |
|                   | Max. charging current / Max. discharging current                            | 30 A                                                               |          |                 |          |          |          |
|                   | Battery type                                                                | LiFePO4                                                            |          |                 |          |          |          |
| AC input          | Rated grid voltage                                                          | 3/N/PE, 220 / 380 V; 230 / 400 V; 240 / 415 V                      |          |                 |          |          |          |
|                   | Rated grid frequency                                                        | 50 Hz / 60 Hz                                                      |          |                 |          |          |          |
|                   | Max. input power from grid                                                  | 16000 W                                                            |          | 20000 W         |          | 24000 W  |          |
|                   | Max. input current from grid                                                | 23.2 A                                                             |          | 29.0 A          |          | 34.8 A   |          |
| AC output         | AC voltage range / Nominal AC voltage                                       | 270V to 480V / 3/N/PE, 220 V / 380 V; 230 V / 400 V; 240 V / 415 V |          |                 |          |          |          |
|                   | Rated AC grid frequency                                                     | 50 Hz / 60 Hz                                                      |          |                 |          |          |          |
|                   | AC grid frequency range                                                     | 45 ~ 55 Hz / 55 ~ 65 Hz                                            |          |                 |          |          |          |
|                   | Rated apparent power                                                        | 8000 VA                                                            |          | 10000 VA        |          | 12000 VA |          |
|                   | Max. apparent power                                                         | 8000 VA                                                            |          | 10000 VA        |          | 12000 VA |          |
|                   | Rated grid output current (@400 V)                                          | 11.6 A                                                             |          | 14.5 A          |          | 17.4 A   |          |
|                   | Max. grid output current(@400 V)                                            | 12.8 A                                                             |          | 16.0 A          |          | 19.2 A   |          |
|                   | Harmonics THDi (@ Nominal power)                                            | < 3 % (of nominal power)                                           |          |                 |          |          |          |
| EPS output        | Nominal output voltage                                                      | 3/N/PE, 220 V / 380 V; 230 V / 400 V; 240 V / 415 V                |          |                 |          |          |          |
|                   | Nominal output frequency                                                    | 50 Hz / 60 Hz                                                      |          |                 |          |          |          |
|                   | Rated apparent power                                                        | 8000 VA                                                            |          | 10000 VA        |          | 12000 VA |          |
|                   | Rated current (@400 V)                                                      | 11.6 A                                                             |          | 14.5 A          |          | 17.4 A   |          |
|                   | Max. current (@400 V, continuous on-grid / off-grid)                        | 23.2 A                                                             | 11.6 A   | 29.0 A          | 14.5 A   | 34.8 A   | 17.4 A   |
|                   | Max. power on each phase(@400 V, continuous on-grid / off-grid)             | 5333 W                                                             | 2667 W   | 6667 W          | 3333 W   | 8000 W   | 4000 W   |
|                   | Peak output apparent power(@400 V, continuous on-grid / off-grid up to 10s) | 16000 VA                                                           | 16000 VA | 20000 VA        | 20000 VA | 24000 VA | 24000 VA |
|                   | Max. switch time                                                            | < 10 ms                                                            |          |                 |          |          |          |
|                   | Output THDv (@ Linear load)                                                 | 2 %                                                                |          |                 |          |          |          |
| Efficiency        | MPPT efficiency                                                             | 99.9 %                                                             |          |                 |          |          |          |
|                   | Euro efficiency / Max. efficiency                                           | 97.2 % / 98.0 %                                                    |          | 97.9 % / 98.4 % |          |          |          |
| Safety protection | DC surge protection( Type II, according to EN/IEC 61643-11)                 | ●                                                                  |          |                 |          |          |          |
|                   | Insulation resistance detection                                             | ●                                                                  |          |                 |          |          |          |
|                   | PV string input reverse polarity protection                                 | ●                                                                  |          |                 |          |          |          |
|                   | Battery input reverse polarity protection                                   | ●                                                                  |          |                 |          |          |          |
|                   | Ground fault monitoring                                                     | ●                                                                  |          |                 |          |          |          |
|                   | Residual current monitoring unit                                            | ●                                                                  |          |                 |          |          |          |
|                   | AC short circuit protection                                                 | ●                                                                  |          |                 |          |          |          |
|                   | Anti-islanding protection                                                   | ●                                                                  |          |                 |          |          |          |
| General data      | Power factor at rated power / adjustable displacement                       | 1 / 0.8 leading to 0.8 lagging                                     |          |                 |          |          |          |
|                   | Dimensions (W / H / D)                                                      | 545 mm / 465 mm / 205 mm                                           |          |                 |          |          |          |
|                   | Weight                                                                      | 26 kg                                                              |          |                 |          |          |          |
|                   | Operating temperature range                                                 | -25 °C ... +60 °C                                                  |          |                 |          |          |          |
|                   | Cooling concept                                                             | Natural convection                                                 |          |                 |          |          |          |
|                   | Noise emission                                                              | < 35 dB                                                            |          |                 |          |          |          |
|                   | Degree of protection (as per IEC 60529)                                     | IP66                                                               |          |                 |          |          |          |
|                   | Max. relative humidity                                                      | 100 %                                                              |          |                 |          |          |          |
|                   | Max. operating altitude                                                     | 4000 m                                                             |          |                 |          |          |          |
|                   |                                                                             |                                                                    |          |                 |          |          |          |
| Features          | User interface                                                              | LED & App                                                          |          |                 |          |          |          |
|                   | BMS interface                                                               | CAN                                                                |          |                 |          |          |          |
|                   | Smart meter interface                                                       | RS485                                                              |          |                 |          |          |          |
|                   | Internet communication interfaces                                           | Wifi / LAN                                                         |          |                 |          |          |          |
|                   | Digital output (dry contact) / No. of outputs                               | ● / 2                                                              |          |                 |          |          |          |
|                   | Digital input (dry contact) / No. of inputs                                 | ● / 4                                                              |          |                 |          |          |          |
|                   | Integrated power control / export power control                             | ● / ●                                                              |          |                 |          |          |          |

● standard features   ○ optional features   - not available  
1) Asymmetrical power output functionality released in August 2024, please confirm version with Solplanet's sales staff before purchase.  
2) The latest optimised platform design supports MPP voltage range at 150V-950V, pending subsequent certificate updates.

Technical Datasheet

|                   |                                                             |                                                                    |         |                 |         |          |         |
|-------------------|-------------------------------------------------------------|--------------------------------------------------------------------|---------|-----------------|---------|----------|---------|
| PV input          | Max. PV array power                                         | 12000 Wp                                                           |         | 15000 Wp        |         | 18000 Wp |         |
|                   | Max. input voltage                                          | 1100 V                                                             |         |                 |         |          |         |
|                   | MPP voltage range / rated input voltage                     | 200 V to 950 V / 630 V <sup>2)</sup>                               |         |                 |         |          |         |
|                   | Min. input voltage / start voltage                          | 60 V / 180 V                                                       |         |                 |         |          |         |
|                   | No. of independent MPPT trackers / strings per MPPT input   | 3 / 1                                                              |         |                 |         |          |         |
|                   | Max. input current / Max. power per MPP tracker             | 16 A                                                               | 10000 W | 16 A            | 10000 W | 16 A     | 10000 W |
|                   | Max. short-circuit current per MPP tracker                  | 24 A                                                               |         |                 |         |          |         |
| Battery input     | Battery voltage range                                       | 120 V to 600 V                                                     |         |                 |         |          |         |
|                   | Max. charging / discharging power                           | 8000 W                                                             |         | 10000 W         |         | 12000 W  |         |
|                   | Max. charging current / Max. discharging current            | 30 A                                                               |         |                 |         |          |         |
|                   | Battery type                                                | LiFePO4                                                            |         |                 |         |          |         |
| AC input          | Rated grid voltage                                          | 3/N/PE, 220 / 380 V; 230 / 400 V; 240 / 415 V                      |         |                 |         |          |         |
|                   | Rated grid frequency                                        | 50 Hz / 60 Hz                                                      |         |                 |         |          |         |
|                   | Max. input power from grid                                  | 8000 W                                                             |         | 10000 W         |         | 12000 W  |         |
|                   | Max. input current from grid                                | 11.6 A                                                             |         | 14.5 A          |         | 17.4 A   |         |
| AC output         | AC voltage range / nominal AC voltage                       | 270V to 480V / 3/N/PE, 220 V / 380 V; 230 V / 400 V; 240 V / 415 V |         |                 |         |          |         |
|                   | Rated AC grid frequency                                     | 50 Hz / 60 Hz                                                      |         |                 |         |          |         |
|                   | AC grid frequency range                                     | 45 ~ 55 Hz / 55 ~ 65 Hz                                            |         |                 |         |          |         |
|                   | Rated apparent power                                        | 8000 VA                                                            |         | 10000 VA        |         | 12000 VA |         |
|                   | Max. apparent power                                         | 8000 VA                                                            |         | 10000 VA        |         | 12000 VA |         |
|                   | Rated grid output current (@400 V)                          | 11.6 A                                                             |         | 14.5 A          |         | 17.4 A   |         |
|                   | Max. grid output current (@400 V)                           | 12.8 A                                                             |         | 16.0 A          |         | 19.2 A   |         |
|                   | Harmonics THDi (@Nominal power)                             | < 3 % (of nominal power)                                           |         |                 |         |          |         |
| Effi-<br>ciency   | MPPT efficiency                                             | 99.9 %                                                             |         |                 |         |          |         |
|                   | Euro efficiency / Max. efficiency                           | 97.2 % / 98.0 %                                                    |         | 97.9 % / 98.4 % |         |          |         |
| Safety protection | DC surge protection( Type II, according to EN/IEC 61643-11) | ●                                                                  |         |                 |         |          |         |
|                   | Insulation resistance detection                             | ●                                                                  |         |                 |         |          |         |
|                   | PV string input reverse polarity protection                 | ●                                                                  |         |                 |         |          |         |
|                   | Battery input reverse polarity protection                   | ●                                                                  |         |                 |         |          |         |
|                   | Ground fault monitoring                                     | ●                                                                  |         |                 |         |          |         |
|                   | Residual current monitoring unit                            | ●                                                                  |         |                 |         |          |         |
|                   | AC short circuit protection                                 | ●                                                                  |         |                 |         |          |         |
|                   | Anti-islanding protection                                   | ●                                                                  |         |                 |         |          |         |
| General data      | Power factor at rated power / adjustable displacement       | 1 / 0.8 leading to 0.8 lagging                                     |         |                 |         |          |         |
|                   | Dimensions (W / H / D)                                      | 545 mm / 465 mm / 205 mm                                           |         |                 |         |          |         |
|                   | Weight                                                      | 26 kg                                                              |         |                 |         |          |         |
|                   | Operating temperature range                                 | -25 °C ... +60 °C                                                  |         |                 |         |          |         |
|                   | Cooling concept                                             | Natural convection                                                 |         |                 |         |          |         |
|                   | Noise emission                                              | < 35 dB                                                            |         |                 |         |          |         |
|                   | Degree of protection (as per IEC 60529)                     | IP66                                                               |         |                 |         |          |         |
|                   | Max. relative humidity                                      | 100 %                                                              |         |                 |         |          |         |
|                   | Max. operating altitude                                     | 4000 m                                                             |         |                 |         |          |         |
| Features          | User interface                                              | LED & App                                                          |         |                 |         |          |         |
|                   | BMS interface                                               | CAN                                                                |         |                 |         |          |         |
|                   | Smart meter interface                                       | RS485                                                              |         |                 |         |          |         |
|                   | Internet communication interfaces                           | Wifi / LAN                                                         |         |                 |         |          |         |
|                   | Digital output (dry contact) / No. of outputs               | ● / 2                                                              |         |                 |         |          |         |
|                   | Digital input (dry contact) / No. of inputs                 | ● / 4                                                              |         |                 |         |          |         |
|                   | Integrated power control / export power control             | ● / ●                                                              |         |                 |         |          |         |

● standard features   ○ optional features   - not available  
1) Asymmetrical power output functionality released in August 2024, please confirm version with Solplanet's sales staff before purchase.  
2) The latest optimised platform design supports MPP voltage range at 150V-950V, pending subsequent certificate updates.

Three phase hybrid inverters 5 to 12 kW

# ASW H-T2-DG Series



Models:  
ASW05kH-T2-DG  
ASW06kH-T2-DG  
ASW08kH-T2-DG  
ASW10kH-T2-DG  
ASW12kH-T2-DG



### Easy-to-install

- Quick & easy-to-install with basic tools
- Compact wall mount design
- Simple battery and smart meter interfaces for quick and secure installation



### Safe & reliable

- Up to 150 % PV array oversizing for higher yields
- Asymmetrical power output
- UPS level switching time < 10 ms
- IP66 rated design for outdoor use
- DC SPD surge protection



### User-friendly

- Max. 50A charging/discharging current
- Compatible with diesel generator
- Setup, commissioning and monitoring via the Solplanet app
- Intelligent work modes and customisable battery management for DOD /Time of Use/Power setting
- Max. 20 A input current, ideal for bifacial and large PV modules

### Technical Datasheet

|                         |                                                                              |                                                                      |          |                 |          |                 |          |          |          |          |          |
|-------------------------|------------------------------------------------------------------------------|----------------------------------------------------------------------|----------|-----------------|----------|-----------------|----------|----------|----------|----------|----------|
| PV input                | Max. PV array power                                                          | 7500 Wp                                                              |          | 9000 Wp         |          | 12000 Wp        |          | 15000 Wp |          | 18000 Wp |          |
|                         | Max. input voltage                                                           | 1100 V                                                               |          |                 |          |                 |          |          |          |          |          |
|                         | MPP voltage range / rated input voltage                                      | 150 V to 950 V / 630 V                                               |          |                 |          |                 |          |          |          |          |          |
|                         | Min. input voltage / start voltage                                           | 60 V / 180 V                                                         |          |                 |          |                 |          |          |          |          |          |
|                         | No. of independent MPPT trackers / strings per MPPT input                    | 2 / 1                                                                |          |                 |          |                 |          |          |          |          |          |
|                         | Max. input current / Max. power per MPP tracker                              | 20 A                                                                 | 7500 W   | 20 A            | 9000 W   | 20 A            | 10000 W  | 20 A     | 10000 W  | 20 A     | 10000 W  |
|                         | Max. short-circuit current per MPP tracker                                   | 30 A                                                                 |          |                 |          |                 |          |          |          |          |          |
| Battery input           | Battery voltage range                                                        | 120 V to 600 V                                                       |          |                 |          |                 |          |          |          |          |          |
|                         | Max. charging power from PV and grid                                         | 12000 W                                                              |          |                 |          |                 |          |          |          |          |          |
|                         | Max. charging power from grid                                                | 5000 W                                                               |          | 6000 W          |          | 8000 W          |          | 10000 W  |          | 12000 W  |          |
|                         | Max. discharging power                                                       | 5000 W                                                               |          | 6000 W          |          | 8000 W          |          | 10000 W  |          | 12000 W  |          |
|                         | Max. charging current / Max. discharging current                             | 50 A                                                                 |          |                 |          |                 |          |          |          |          |          |
| AC input                | Battery type                                                                 | LiFePO4                                                              |          |                 |          |                 |          |          |          |          |          |
|                         | Rated grid voltage                                                           | 3/N/PE, 220 V / 380 V; 230 V / 400 V; 240 V / 415 V                  |          |                 |          |                 |          |          |          |          |          |
|                         | Rated grid frequency                                                         | 50 Hz / 60 Hz                                                        |          |                 |          |                 |          |          |          |          |          |
|                         | Max. input power from grid                                                   | 10000 W                                                              |          | 12000 W         |          | 16000 W         |          | 20000 W  |          | 24000 W  |          |
|                         | Max. input current from grid                                                 | 14.5 A                                                               |          | 17.4 A          |          | 23.2 A          |          | 29.0 A   |          | 34.8 A   |          |
| AC output               | AC voltage range / Nominal AC voltage                                        | 270 V to 480 V / 3/N/PE, 220 V / 380 V; 230 V / 400 V; 240 V / 415 V |          |                 |          |                 |          |          |          |          |          |
|                         | Rated AC grid frequency                                                      | 50 Hz / 60 Hz                                                        |          |                 |          |                 |          |          |          |          |          |
|                         | AC grid frequency range                                                      | 45 ~ 55 Hz / 55 ~ 65 Hz                                              |          |                 |          |                 |          |          |          |          |          |
|                         | Rated apparent power                                                         | 5000 VA                                                              |          | 6000 VA         |          | 8000 VA         |          | 10000 VA |          | 12000 VA |          |
|                         | Max. apparent power                                                          | 5000 VA                                                              |          | 6000 VA         |          | 8000 VA         |          | 10000 VA |          | 12000 VA |          |
|                         | Rated grid output current (@400 V)                                           | 7.3 A                                                                |          | 8.7 A           |          | 11.6 A          |          | 14.5 A   |          | 17.4 A   |          |
|                         | Max. grid output current (@400 V)                                            | 8.0 A                                                                |          | 9.6 A           |          | 12.8 A          |          | 16.0 A   |          | 19.2 A   |          |
|                         | Power factor at rated power / adjustable range                               | 1 / 0.8 leading to 0.8 lagging                                       |          |                 |          |                 |          |          |          |          |          |
|                         | Harmonics THDi (@ Nominal power)                                             | < 3 % (of nominal power)                                             |          |                 |          |                 |          |          |          |          |          |
| EPS output              | Nominal output voltage                                                       | 3/N/PE, 220 V / 380 V; 230 V / 400 V; 240 V / 415 V                  |          |                 |          |                 |          |          |          |          |          |
|                         | Nominal output frequency                                                     | 50 Hz / 60 Hz                                                        |          |                 |          |                 |          |          |          |          |          |
|                         | Rated apparent power                                                         | 5000 VA                                                              |          | 6000 VA         |          | 8000 VA         |          | 10000 VA |          | 12000 VA |          |
|                         | Rated current (@400 V)                                                       | 7.3 A                                                                |          | 8.7 A           |          | 11.6 A          |          | 14.5 A   |          | 17.4 A   |          |
|                         | Max. current (@400 V, continuous on-grid / off-grid)                         | 14.5 A                                                               | 7.3 A    | 17.4 A          | 8.7 A    | 23.2 A          | 11.6 A   | 29.0 A   | 14.5 A   | 34.8 A   | 17.4 A   |
|                         | Max. power on each phase (@400 V, continuous on-grid / off-grid)             | 3333 W                                                               | 1667 W   | 4000 W          | 2000 W   | 5333 W          | 2667 W   | 6667 W   | 3333 W   | 8000 W   | 4000 W   |
|                         | Peak output apparent power (@400 V, continuous on-grid / off-grid up to 10s) | 10000 VA                                                             | 10000 VA | 12000 VA        | 12000 VA | 16000 VA        | 16000 VA | 20000 VA | 20000 VA | 24000 VA | 24000 VA |
|                         | Max. switch time                                                             | < 10 ms                                                              |          |                 |          |                 |          |          |          |          |          |
|                         | Output THDv (@ Linear load)                                                  | 2 %                                                                  |          |                 |          |                 |          |          |          |          |          |
| Generator side          | Max. input apparent power                                                    | 7500 VA                                                              |          | 9000 VA         |          | 12000 VA        |          | 15000 VA |          | 18000 VA |          |
|                         | Max. charging power of battery                                               | 5000 W                                                               |          | 6000 W          |          | 8000 W          |          | 10000 W  |          | 12000 W  |          |
|                         | Rated AC voltage                                                             | 3/N/PE, 220 / 380 V; 230 / 400 V; 240 / 415 V                        |          |                 |          |                 |          |          |          |          |          |
|                         | Rated AC frequency                                                           | 50 Hz / 60 Hz                                                        |          |                 |          |                 |          |          |          |          |          |
| Efficiency              | MPPT efficiency                                                              | 99.9 %                                                               |          |                 |          |                 |          |          |          |          |          |
|                         | Euro efficiency / Max. efficiency                                            | 97.2 % / 98.0 %                                                      |          | 97.5 % / 98.2 % |          | 97.9 % / 98.4 % |          |          |          |          |          |
| Safety protection       | DC surge protection (Type II, according to EN/IEC 61643-11)                  | ●                                                                    |          |                 |          |                 |          |          |          |          |          |
|                         | Insulation resistance detection                                              | ●                                                                    |          |                 |          |                 |          |          |          |          |          |
|                         | PV string input reverse polarity protection                                  | ●                                                                    |          |                 |          |                 |          |          |          |          |          |
|                         | Battery input reverse polarity protection                                    | ●                                                                    |          |                 |          |                 |          |          |          |          |          |
|                         | Ground fault monitoring                                                      | ●                                                                    |          |                 |          |                 |          |          |          |          |          |
|                         | Residual current monitoring unit                                             | ●                                                                    |          |                 |          |                 |          |          |          |          |          |
|                         | AC short circuit protection                                                  | ●                                                                    |          |                 |          |                 |          |          |          |          |          |
|                         | Anti-islanding protection                                                    | ●                                                                    |          |                 |          |                 |          |          |          |          |          |
| General data            | Power factor at rated power / adjustable displacement                        | 1 / 0.8 leading to 0.8 lagging                                       |          |                 |          |                 |          |          |          |          |          |
|                         | Dimensions (W / H / D)                                                       | 625 / 465 / 241 mm                                                   |          |                 |          |                 |          |          |          |          |          |
|                         | Weight                                                                       | 28 kg                                                                |          |                 |          |                 |          |          |          |          |          |
|                         | Operating temperature range                                                  | -25 °C ... +60 °C                                                    |          |                 |          |                 |          |          |          |          |          |
|                         | Cooling concept                                                              | Natural convection                                                   |          |                 |          |                 |          |          |          |          |          |
|                         | Degree of protection (as per IEC 60529)                                      | IP66                                                                 |          |                 |          |                 |          |          |          |          |          |
|                         | Max. relative humidity                                                       | 100 %                                                                |          |                 |          |                 |          |          |          |          |          |
| Max. operating altitude | 4000 m                                                                       |                                                                      |          |                 |          |                 |          |          |          |          |          |
| Features                | User interface                                                               | LED & App                                                            |          |                 |          |                 |          |          |          |          |          |
|                         | BMS interface                                                                | CAN                                                                  |          |                 |          |                 |          |          |          |          |          |
|                         | Smart meter interface                                                        | RS485                                                                |          |                 |          |                 |          |          |          |          |          |
|                         | Internet communication interfaces                                            | Wifi / LAN / Ethernet                                                |          |                 |          |                 |          |          |          |          |          |
|                         | Digital output (dry contact) / No. of outputs                                | ● / 2                                                                |          |                 |          |                 |          |          |          |          |          |
|                         | Digital input (dry contact) / No. of inputs                                  | ● / 4                                                                |          |                 |          |                 |          |          |          |          |          |
|                         | Integrated power control / export power control                              | ● / ●                                                                |          |                 |          |                 |          |          |          |          |          |

● standard features   ○ optional features   - not available

Three phase hybrid inverters 8 to 12 kW

# ASW H-T3-DG Series



Models:  
ASW08kH-T3-DG  
ASW10kH-T3-DG  
ASW12kH-T3-DG



### Easy-to-install

- Quick & easy-to-install with basic tools
- Compact wall mount design
- Simple battery and smart meter interfaces for quick and secure installation

### Safe & reliable

- Up to 150 % PV array oversizing for higher yields
- Asymmetrical power output
- UPS level switching time < 10 ms
- IP66 rated design for outdoor use
- DC SPD surge protection

### User-friendly

- 3 independent MPPTs for flexible and higher kWp PV array design
- Max. 50A charging/discharging current
- Compatible with diesel generator
- Setup, commissioning and monitoring via the Solplanet app
- Intelligent work modes and customisable battery management for DOD /Time of Use/Power setting
- Max. 16 A input current, ideal for bifacial and large PV modules

### Technical Datasheet

|                   |                                                                             |                                                                    |          |                 |          |          |          |
|-------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------|----------|-----------------|----------|----------|----------|
| PV input          | Max. PV array power                                                         | 12000 Wp                                                           |          | 15000 Wp        |          | 18000 Wp |          |
|                   | Max. input voltage                                                          | 1100 V                                                             |          |                 |          |          |          |
|                   | MPP voltage range / rated input voltage                                     | 150 V to 950 V / 630 V                                             |          |                 |          |          |          |
|                   | Min. input voltage / start voltage                                          | 60 V / 180 V                                                       |          |                 |          |          |          |
|                   | No. of independent MPPT trackers / strings per MPPT input                   | 3 / 1                                                              |          |                 |          |          |          |
|                   | Max. input current / Max. power per MPP tracker                             | 16 A                                                               | 10000 W  | 16 A            | 10000 W  | 16 A     | 10000 W  |
|                   | Max. short-circuit current per MPP tracker                                  | 24 A                                                               |          |                 |          |          |          |
| Battery input     | Battery voltage range                                                       | 120 V to 600 V                                                     |          |                 |          |          |          |
|                   | Max. charging power from PV and grid                                        | 12000 W                                                            |          |                 |          |          |          |
|                   | Max. charging power from grid                                               | 8000 W                                                             |          | 10000 W         |          | 12000 W  |          |
|                   | Max. discharging power                                                      | 8000 W                                                             |          | 10000 W         |          | 12000 W  |          |
|                   | Max. charging current / Max. discharging current                            | 50 A                                                               |          |                 |          |          |          |
|                   | Battery type                                                                | LiFePO4                                                            |          |                 |          |          |          |
| AC input          | Rated grid voltage                                                          | 3/N/PE, 220 V / 380 V; 230 V / 400 V; 240 V / 415 V                |          |                 |          |          |          |
|                   | Rated grid frequency                                                        | 50 Hz / 60 Hz                                                      |          |                 |          |          |          |
|                   | Max. input power from grid                                                  | 16000 W                                                            |          | 20000 W         |          | 24000 W  |          |
|                   | Max. input current from grid                                                | 23.2 A                                                             |          | 29.0 A          |          | 34.8 A   |          |
| AC output         | AC voltage range / Nominal AC voltage                                       | 270V to 480V / 3/N/PE, 220 V / 380 V; 230 V / 400 V; 240 V / 415 V |          |                 |          |          |          |
|                   | Rated AC grid frequency                                                     | 50 Hz / 60 Hz                                                      |          |                 |          |          |          |
|                   | AC grid frequency range                                                     | 45~55 Hz / 55~65 Hz                                                |          |                 |          |          |          |
|                   | Rated apparent power                                                        | 8000 VA                                                            |          | 10000 VA        |          | 12000 VA |          |
|                   | Max. apparent power                                                         | 8000 VA                                                            |          | 10000 VA        |          | 12000 VA |          |
|                   | Rated grid output current (@400 V)                                          | 11.6 A                                                             |          | 14.5 A          |          | 17.4 A   |          |
|                   | Max. grid output current(@400 V)                                            | 12.8 A                                                             |          | 16.0 A          |          | 19.2 A   |          |
|                   | Harmonics THDi (@ Nominal power)                                            | < 3 % (of nominal power)                                           |          |                 |          |          |          |
|                   |                                                                             |                                                                    |          |                 |          |          |          |
| EPS output        | Nominal output voltage                                                      | 3/N/PE, 220 V / 380 V; 230 V / 400 V; 240 V / 415 V                |          |                 |          |          |          |
|                   | Nominal output frequency                                                    | 50 Hz / 60 Hz                                                      |          |                 |          |          |          |
|                   | Rated apparent power                                                        | 8000 VA                                                            |          | 10000 VA        |          | 12000 VA |          |
|                   | Rated current (@400 V)                                                      | 11.6 A                                                             |          | 14.5 A          |          | 17.4 A   |          |
|                   | Max. current (@400 V, continuous on-grid / off-grid)                        | 23.2 A                                                             | 11.6 A   | 29.0 A          | 14.5 A   | 34.8 A   | 17.4 A   |
|                   | Max. power on each phase(@400 V, continuous on-grid / off-grid)             | 5333 W                                                             | 2667 W   | 6667 W          | 3333 W   | 8000 W   | 4000 W   |
|                   | Peak output apparent power(@400 V, continuous on-grid / off-grid up to 10s) | 16000 VA                                                           | 16000 VA | 20000 VA        | 20000 VA | 24000 VA | 24000 VA |
|                   | Max. switch time                                                            | < 10 ms                                                            |          |                 |          |          |          |
|                   | Output THDv (@ Linear load)                                                 | 2 %                                                                |          |                 |          |          |          |
| Generator side    | Max. input apparent power                                                   | 12000 VA                                                           |          | 15000 VA        |          | 18000 VA |          |
|                   | Max. charging power of battery                                              | 8000 W                                                             |          | 10000 W         |          | 12000 W  |          |
|                   | Rated AC voltage                                                            | 3/N/PE, 220 / 380 V; 230 / 400 V; 240 /415 V                       |          |                 |          |          |          |
|                   | Rated AC frequency                                                          | 50 Hz / 60 Hz                                                      |          |                 |          |          |          |
| Efficiency        | MPPT efficiency                                                             | 99.9 %                                                             |          |                 |          |          |          |
|                   | Euro efficiency / Max. efficiency                                           | 97.2 % / 98.0 %                                                    |          | 97.9 % / 98.4 % |          |          |          |
| Safety protection | DC surge protection ( Type II, according to EN/IEC 61643-11)                | ●                                                                  |          |                 |          |          |          |
|                   | Insulation resistance detection                                             | ●                                                                  |          |                 |          |          |          |
|                   | PV string input reverse polarity protection                                 | ●                                                                  |          |                 |          |          |          |
|                   | Battery input reverse polarity protection                                   | ●                                                                  |          |                 |          |          |          |
|                   | Ground fault monitoring                                                     | ●                                                                  |          |                 |          |          |          |
|                   | Residual current monitoring unit                                            | ●                                                                  |          |                 |          |          |          |
|                   | AC short circuit protection                                                 | ●                                                                  |          |                 |          |          |          |
|                   | Anti-islanding protection                                                   | ●                                                                  |          |                 |          |          |          |
| General data      | Power factor at rated power / adjustable displacement                       | 1 / 0.8 leading to 0.8 lagging                                     |          |                 |          |          |          |
|                   | Dimensions (W / H / D)                                                      | 625 mm / 465 mm / 241 mm                                           |          |                 |          |          |          |
|                   | Weight                                                                      | 29.5 kg                                                            |          |                 |          |          |          |
|                   | Operating temperature range                                                 | -25 °C ... +60 °C                                                  |          |                 |          |          |          |
|                   | Cooling concept                                                             | Natural convection                                                 |          |                 |          |          |          |
|                   | Degree of protection (as per IEC 60529)                                     | IP66                                                               |          |                 |          |          |          |
|                   | Max. relative humidity                                                      | 100 %                                                              |          |                 |          |          |          |
|                   | Max. operating altitude                                                     | 4000 m                                                             |          |                 |          |          |          |
| Features          | User interface                                                              | LED & App                                                          |          |                 |          |          |          |
|                   | BMS interface                                                               | CAN                                                                |          |                 |          |          |          |
|                   | Smart meter interface                                                       | RS485                                                              |          |                 |          |          |          |
|                   | Internet communication interfaces                                           | Wifi / LAN / Ethernet                                              |          |                 |          |          |          |
|                   | Digital output (dry contact) / No. of outputs                               | ● / 2                                                              |          |                 |          |          |          |
|                   | Digital input (dry contact) / No. of inputs                                 | ● / 4                                                              |          |                 |          |          |          |
|                   | Integrated power control / export power control                             | ● / ●                                                              |          |                 |          |          |          |

● standard features   ○ optional features   - not available



Three phase hybrid inverters 15 to 30 kW

# ASW TH Series



Models:

- ASW015K-TH
- ASW020K-TH
- ASW025K-TH
- ASW29.9K-TH
- ASW030K-TH



### Easy-to-install

- 4 MPPTs, up to 40 A input per MPPT
- Up to 200 % PV array oversizing
- Up to 100 A charge / discharge current
- ShadeSol shadow management
- Dynamic export power control



### Safe & reliable

- String-level current monitoring
- DC SPD Type II surge protection
- IP66 rated design for indoor and outdoor use
- Optimal battery voltage range, 120-800 V
- Intelligent operation modes and smart battery management
- UPS-level switching time < 10 ms



### User-friendly

- Quick and easy-to-install with standard tools
- Cover design, choice from a delightful range of colours
- Smart setup, commissioning and monitoring via Solplanet App
- Anti-theft design

## Technical Datasheet

| Technical Datasheet |                                                                  | ASW015K-TH                                                                                                            | ASW020K-TH    | ASW025K-TH      | ASW29.9K-TH    | ASW030K-TH     |
|---------------------|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|---------------|-----------------|----------------|----------------|
| PV input            | Max. PV array power                                              | 30000 Wp                                                                                                              | 40000 Wp      | 50000 Wp        | 59800 Wp       | 60000 Wp       |
|                     | Max. input voltage                                               | 1000 V                                                                                                                |               |                 |                |                |
|                     | MPP voltage range / rated input voltage                          | 150 V to 950 V / 630 V                                                                                                |               |                 |                |                |
|                     | Min. input voltage / start voltage                               | 95 V / 180 V                                                                                                          |               |                 |                |                |
|                     | No. of independent MPPT trackers / strings per MPPT input        | 4 / 1                                                                                                                 |               | 4 / 2           |                |                |
|                     | Max. input current / Max. power per MPP tracker                  | 20 A / 15000 W                                                                                                        | 20 A / 15000W | 40 A / 25000 W  | 40 A / 25000 W | 40 A / 25000 W |
|                     | Max. short-circuit current per MPP tracker                       | 25 A                                                                                                                  |               | 50 A            |                |                |
| Battery input       | Battery voltage range                                            | 120 V to 800 V                                                                                                        |               |                 |                |                |
|                     | Max. charge power from PV and AC side                            | 30000 W                                                                                                               | 40000 W       | 50000 W         | 59800 W        | 60000 W        |
|                     | Max. charge power from AC side                                   | 15000 W                                                                                                               | 20000 W       | 25000 W         | 29900 W        | 30000 W        |
|                     | Max. discharge power                                             | 15000 W                                                                                                               | 20000 W       | 25000 W         | 29900 W        | 30000 W        |
|                     | Max. charge current / Max. discharge current                     | 50 A                                                                                                                  |               | 100 A           |                |                |
|                     | No. of independent battery inputs                                | 1                                                                                                                     |               | 2               |                |                |
|                     | Battery type                                                     | LiFePO4                                                                                                               |               |                 |                |                |
| AC input            | Nominal AC voltage                                               | 3/N/PE, 220 V / 380 V<br>3/N/PE, 230 V / 400 V<br>3/N/PE, 240 V / 415 V                                               |               |                 |                |                |
|                     | Rated grid frequency                                             | 50 Hz / 60 Hz                                                                                                         |               |                 |                |                |
|                     | Max. input power from grid                                       | 30000 W                                                                                                               | 40000 W       | 50000 W         | 50000 W        | 50000 W        |
|                     | Max. input current from grid                                     | 43.5 A                                                                                                                | 58.0 A        | 72.5 A          | 72.5 A         | 72.5 A         |
|                     |                                                                  |                                                                                                                       |               |                 |                |                |
| AC output           | Nominal AC voltage                                               | 3/N/PE, 220 V / 380 V<br>3/N/PE, 230 V / 400 V<br>3/N/PE, 240 V / 415 V                                               |               |                 |                |                |
|                     | AC voltage range                                                 | 270 V to 480 V                                                                                                        |               |                 |                |                |
|                     | Rated AC grid frequency                                          | 50 Hz / 60 Hz                                                                                                         |               |                 |                |                |
|                     | AC grid frequency range                                          | 45~55 Hz / 55~65 Hz                                                                                                   |               |                 |                |                |
|                     | Rated apparent power                                             | 15000 VA                                                                                                              | 20000 VA      | 25000 VA        | 29900 VA       | 30000 VA       |
|                     | Max. apparent power                                              | 15000 VA                                                                                                              | 20000 VA      | 25000 VA        | 29900 VA       | 30000 VA       |
|                     | Rated grid output current(@400V)                                 | 21.7 A                                                                                                                | 29.0 A        | 36.2 A          | 43.3 A         | 43.4 A         |
|                     | Max. grid output current                                         | 23.9 A                                                                                                                | 31.9 A        | 39.8 A          | 47.6 A         | 47.8 A         |
|                     | Power factor at rated power / adjustable range                   | 1 / 0.8 leading to 0.8 lagging                                                                                        |               |                 |                |                |
|                     | Harmonics THDi (@ Nominal power)                                 | < 3 % (of nominal power)                                                                                              |               |                 |                |                |
| EPS output          | Nominal AC voltage                                               | 3/N/PE, 220 V / 380 V<br>3/N/PE, 230 V / 400 V<br>3/N/PE, 240 V / 415 V                                               |               |                 |                |                |
|                     | Nominal output frequency                                         | 50 Hz/60 Hz                                                                                                           |               |                 |                |                |
|                     | Rated apparent power                                             | 15000 VA                                                                                                              | 20000 VA      | 25000 VA        | 29900 VA       | 30000 VA       |
|                     | Max. apparent power (@400 V, continuous on-grid/off-grid)        | 16500 VA                                                                                                              | 22000 VA      | 27500 VA        | 32890 VA       | 33000 VA       |
|                     | Rated current (@400V)                                            | 21.7 A                                                                                                                | 29.0 A        | 36.2 A          | 43.3 A         | 43.4 A         |
|                     | Max. current (@400 V, continuous on-grid / off-grid)             | 23.9 A                                                                                                                | 31.9 A        | 39.8 A          | 47.6 A         | 47.8 A         |
|                     | Max. power on each phase (@400 V, continuous on-grid / off-grid) | 5500 W                                                                                                                | 7333 W        | 9166 W          | 10963 W        | 11000 W        |
|                     | Peak output apparent power (off-grid up to 10s)                  | 30000 VA                                                                                                              | 40000 VA      | 45000 VA        | 45000 VA       | 45000 VA       |
|                     | Max. switch time                                                 | < 10 ms                                                                                                               |               |                 |                |                |
|                     | Output THDv (@ Linear load)                                      | 2%                                                                                                                    |               |                 |                |                |
| Effi-<br>ciency     | MPPT efficiency                                                  | 99.90%                                                                                                                |               |                 |                |                |
|                     | European efficiency / Max. efficiency                            | 97.2 % / 98.0 %                                                                                                       |               | 97.9 % / 98.4 % |                |                |
| Safety protection   | DC / AC surge protection (Type II, according to EN/IEC 61643-11) | ● / ○                                                                                                                 |               |                 |                |                |
|                     | Insulation resistance detection                                  | ●                                                                                                                     |               |                 |                |                |
|                     | PV string input reverse polarity protection                      | ●                                                                                                                     |               |                 |                |                |
|                     | Battery input reverse polarity protection                        | ●                                                                                                                     |               |                 |                |                |
|                     | Ground fault monitoring                                          | ●                                                                                                                     |               |                 |                |                |
|                     | Residual current monitoring unit                                 | ●                                                                                                                     |               |                 |                |                |
|                     | AC short circuit protection                                      | ●                                                                                                                     |               |                 |                |                |
|                     | Anti-islanding protection                                        | ●                                                                                                                     |               |                 |                |                |
| General data        | Supported grid types                                             | TN-S, TN-C, TN-C-S, TT                                                                                                |               |                 |                |                |
|                     | Dimensions (W / H / D)                                           | 769 mm / 491 mm / 285 mm                                                                                              |               |                 |                |                |
|                     | Weight                                                           | 52.0 kg                                                                                                               |               | 58.0 kg         |                |                |
|                     | Colour                                                           | ● Morandi blue / ● Earl red / ● Scandinavian grey                                                                     |               |                 |                |                |
|                     | Operating temperature range                                      | -30 °C ... +60 °C                                                                                                     |               |                 |                |                |
|                     | Cooling concept                                                  | Smart cooling                                                                                                         |               |                 |                |                |
|                     | Degree of protection (as per IEC 60529)                          | IP66                                                                                                                  |               |                 |                |                |
|                     | Max. relative humidity                                           | 100%                                                                                                                  |               |                 |                |                |
|                     | Max. operating altitude                                          | 4000 m                                                                                                                |               |                 |                |                |
|                     | User interface                                                   | LED & APP                                                                                                             |               |                 |                |                |
| Features            | BMS interface                                                    | CAN                                                                                                                   |               |                 |                |                |
|                     | Communication Interfaces                                         | Dongle: WiFi (2.4 GHz) / LAN (100 Mbps)<br>Inverter: RS485 (ModBus RTU, Sunspec RTU), LAN (100 Mbps, Modbus TCP only) |               |                 |                |                |
|                     | Digital output (dry contact) / No. of outputs                    | ● / 3                                                                                                                 |               |                 |                |                |
|                     | Digital input (dry contact) / No. of inputs                      | ● / 7                                                                                                                 |               |                 |                |                |
|                     | Integrated power control / export power control                  | ● / ●                                                                                                                 |               |                 |                |                |

● standard features / ○ optional features / - not available

# ASW A-S Series



Models:  
ASW0600/1250A-S      ASW0600/2500A-S  
ASW0800/1250A-S      ASW0800/2500A-S  
ASW1000/1250A-S      ASW1000/2500A-S



Safe and Reliable

- Isolated topology, safe and reliable low voltage system
- 10 years warranty
- All-around protection with Battery Management System (BMS)



Easy-to-install

- Quick plug design, easier installation process
- Compact exterior design, fits in your home decorated nicely
- All-in-one system, easy to install for everyone



User-friendly

- Low working temperature down to -15°C
- LCD display screen, intuitive setup and status monitoring
- Setup, commissioning, and monitoring via Solplanet app



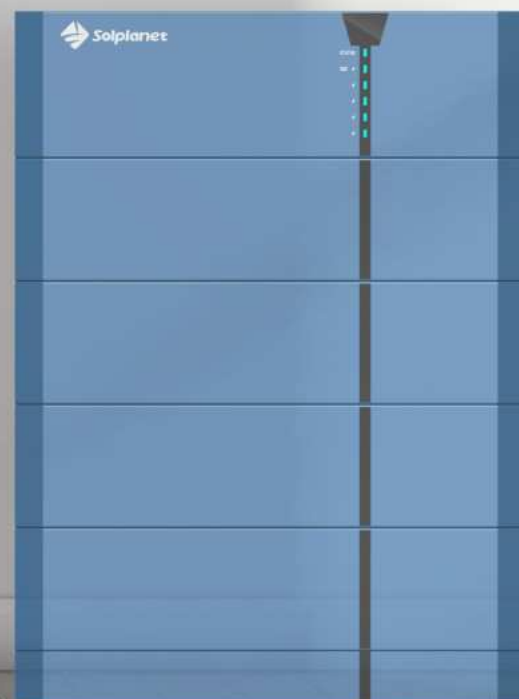
Efficient & intelligent

- Over 200% PV array oversizing for higher yields
- 2 MPPTs with 4 strings, increase PV generation.
- 6 work modes, 2 battery capacity choices

Technical Datasheet

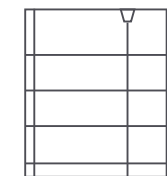
| Technical Datasheet                     |                                                           | ASW0600/<br>1250A-S                            | ASW0800/<br>1250A-S            | ASW1000/<br>1250A-S | ASW0600/<br>2500A-S | ASW0800/<br>2500A-S | ASW1000/<br>2500A-S |
|-----------------------------------------|-----------------------------------------------------------|------------------------------------------------|--------------------------------|---------------------|---------------------|---------------------|---------------------|
| PV input                                | Max. PV array power                                       | 2000 Wp                                        |                                |                     |                     |                     |                     |
|                                         | Max. input voltage                                        | 50 V                                           |                                |                     |                     |                     |                     |
|                                         | MPP voltage range / rated input voltage                   | 16 V to 50 V / 40 V                            |                                |                     |                     |                     |                     |
|                                         | Min. input voltage / start voltage                        | 26 V / 30 V                                    |                                |                     |                     |                     |                     |
|                                         | No. of independent MPPT trackers / strings per MPPT input | 2 / 2                                          |                                |                     |                     |                     |                     |
|                                         | Max. input current per MPP tracker                        | 28 A                                           |                                |                     |                     |                     |                     |
|                                         | Max. short-circuit current per MPP tracker                | 39 A                                           |                                |                     |                     |                     |                     |
| Battery input                           | Rated battery energy                                      | 1.3 kWh                                        |                                |                     | 2.4 kWh             |                     |                     |
|                                         | Rated capacity                                            | 27 Ah                                          |                                |                     | 50 Ah               |                     |                     |
|                                         | Battery type                                              | LiFePO4                                        |                                |                     |                     |                     |                     |
| AC output (On-grid)                     | Nominal AC voltage                                        | 220V / 230V / 240V                             |                                |                     |                     |                     |                     |
|                                         | AC voltage range                                          | 154 V - 276 V                                  |                                |                     |                     |                     |                     |
|                                         | Rated AC grid frequency                                   | 50 Hz / 60 Hz                                  |                                |                     |                     |                     |                     |
|                                         | AC grid frequency range                                   | 45~55 Hz / 55~65 Hz                            |                                |                     |                     |                     |                     |
|                                         | Rated apparent power                                      | 600 VA                                         | 800 VA                         | 1000 VA             | 600 VA              | 800 VA              | 1000 VA             |
|                                         | Max. apparent power                                       | 600 VA                                         | 800 VA                         | 1000 VA             | 600 VA              | 800 VA              | 1000 VA             |
|                                         | Rated grid output current (@230 V)                        | 2.6 A                                          | 3.5 A                          | 4.4 A               | 2.6 A               | 3.5 A               | 4.4 A               |
|                                         | Max. grid output current                                  | 2.8 A                                          | 3.8 A                          | 4.8 A               | 2.8 A               | 3.8 A               | 4.8 A               |
|                                         | Harmonics THDi (@ Nominal power)                          | < 3 % (of nominal power)                       |                                |                     |                     |                     |                     |
|                                         | AC input                                                  | Rated grid voltage                             | 220V / 230V / 240V             |                     |                     |                     |                     |
| Rated grid frequency                    |                                                           | 50 Hz / 60 Hz                                  |                                |                     |                     |                     |                     |
| Max. input power from grid              |                                                           | 1000 W                                         |                                |                     |                     |                     |                     |
| Max. input current from grid            |                                                           | 4.8A                                           |                                |                     |                     |                     |                     |
| AC output(Off-grid)                     |                                                           | Nominal output voltage                         | 230V                           |                     |                     |                     |                     |
|                                         | Nominal output frequency                                  | 50 Hz / 60 Hz                                  |                                |                     |                     |                     |                     |
|                                         | Rated apparent power                                      | 1000 VA                                        |                                |                     |                     |                     |                     |
|                                         | Peak output apparent power                                | 1600VA, 60 s                                   |                                |                     |                     |                     |                     |
|                                         | Rated output current (@230 V)                             | 4.4A                                           |                                |                     |                     |                     |                     |
|                                         | Max. output current                                       | 4.8A                                           |                                |                     |                     |                     |                     |
|                                         | Output THDv (@ Linear load)                               | < 2 %                                          |                                |                     |                     |                     |                     |
|                                         | EPS model                                                 | Manual switch                                  |                                |                     |                     |                     |                     |
| Efficiency                              | MPPT efficiency                                           | 99.9 %                                         |                                |                     |                     |                     |                     |
|                                         | Max. battery to load efficiency                           | 92.0 %                                         |                                |                     |                     |                     |                     |
|                                         | General data                                              | Power factor at rated power / adjustable range | 1 / 0.8 leading to 0.8 lagging |                     |                     |                     |                     |
| Topology                                |                                                           | Isolated                                       |                                |                     |                     |                     |                     |
| Dimensions (W / H / D)                  |                                                           | 600 / 400 / 310 mm                             |                                |                     |                     |                     |                     |
| Weight                                  |                                                           | 31 kg                                          |                                |                     | 38 kg               |                     |                     |
| Operating temperature range             |                                                           | -15 °C ... +45 °C                              |                                |                     |                     |                     |                     |
| Cooling concept                         |                                                           | Fan Cooling                                    |                                |                     |                     |                     |                     |
| Degree of protection (as per IEC 60529) |                                                           | IP55                                           |                                |                     |                     |                     |                     |
| Max. relative humidity                  |                                                           | 95 %                                           |                                |                     |                     |                     |                     |
| Max. operating altitude                 |                                                           | 3000 m                                         |                                |                     |                     |                     |                     |
| Features                                | User interface                                            | LCD & App                                      |                                |                     |                     |                     |                     |
|                                         | Zero-export interface                                     | CT                                             |                                |                     |                     |                     |                     |
|                                         | Internet communication interfaces                         | Wifi                                           |                                |                     |                     |                     |                     |
| Certificates                            | Grid                                                      | VDE 4105 / EN 50549                            |                                |                     |                     |                     |                     |
|                                         | Safety                                                    | IEC/EN 62109-1, IEC/EN 62109-2                 |                                |                     |                     |                     |                     |
|                                         | EMC                                                       | IEC/EN 61000-6-1/-2/-3/-4, IEC/EN 61000-3-2/-3 |                                |                     |                     |                     |                     |
|                                         | Battery                                                   | IEC62619, UN 38.3                              |                                |                     |                     |                     |                     |

# Energy Storage Batteries



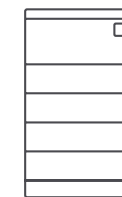
## Store each energy

### HIGH VOLTAGE BATTERY



Ai-HB G2 SERIES

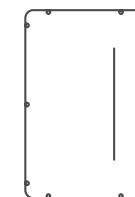
Ai-HB 075A / 100A / 125A /  
150A / 175A / 200A



Ai-HB SERIES

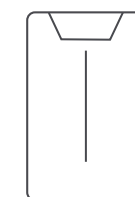
Ai-HB 2.56LG

### LOW VOLTAGE BATTERY



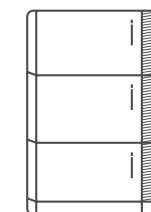
Ai-LB SERIES

Ai-LB 5K / 10K



Ai-LB Pro SERIES

Ai-LB 5K / 10K Pro

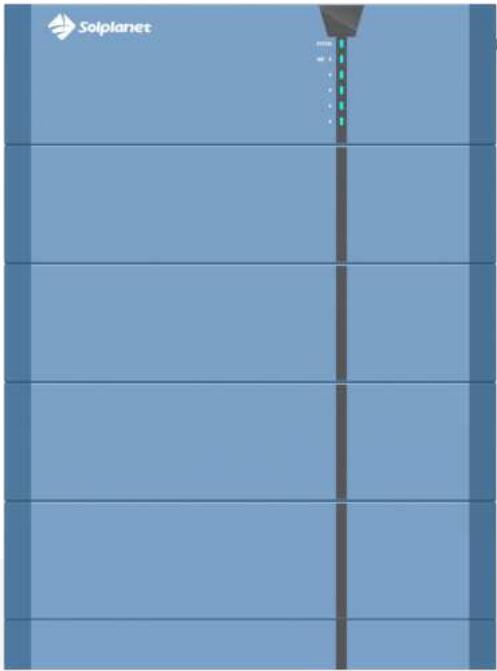


Ai-LB-G3

ASW5120-LB-G3



# Ai-HB G2 Series



Models:  
Ai-HB 075A    Ai-HB 150A  
Ai-HB 100A    Ai-HB 175A  
Ai-HB 125A    Ai-HB 200A



### Safety

- Modular design with plug-in connections
- Quick connections between battery and inverter
- Quick & easy-to-install with basic tools
- Steady and anti-dumping design



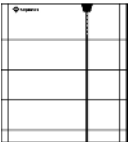
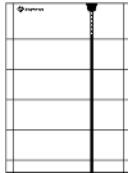
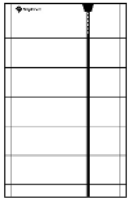
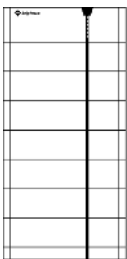
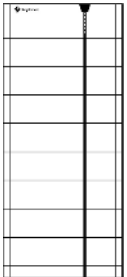
### Reliable

- IP65 rated design
- Cell-level monitoring
- LFP safe technology
- All-round BMS protection



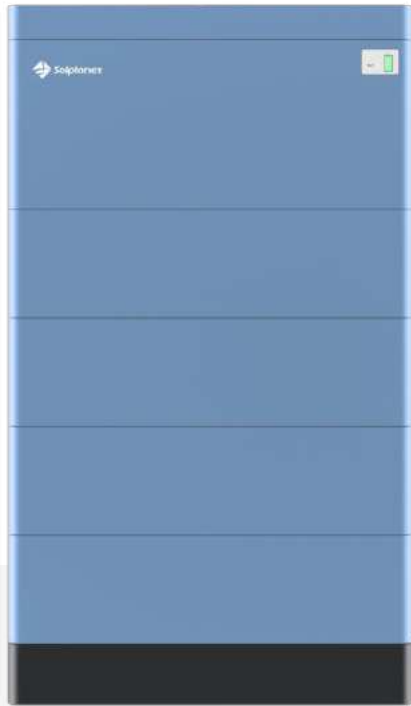
### User-friendly

- Stackable and Expandable up to 81.92 kWh (supporting 8 modules per unit, 4 units in parallel)
- Multi-use applications: self-consumption, time of use tariffs, customisation
- Online monitoring via Solplanet apps

| Technical Datasheet |                                    | Ai-HB 075A                                                                                                                                                                                           | Ai-HB 100A                                                                          | Ai-HB 125A                                                                          | Ai-HB 150A                                                                          | Ai-HB 175A                                                                          | Ai-HB 200A                                                                          |
|---------------------|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| System Data         | Battery designation                |                                                                                                                   |  |  |  |  |  |
|                     | Battery module                     | HB051050A                                                                                                                                                                                            |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                     | Cell type                          | LiFePO4                                                                                                                                                                                              |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                     | Module quantity                    | 3                                                                                                                                                                                                    | 4                                                                                   | 5                                                                                   | 6                                                                                   | 7                                                                                   | 8                                                                                   |
|                     | Rated capacity                     | 50 Ah                                                                                                                                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                     | Nominal energy <sup>1</sup>        | 7.68 kWh                                                                                                                                                                                             | 10.24 kWh                                                                           | 12.8 kWh                                                                            | 15.36 kWh                                                                           | 17.92 kWh                                                                           | 20.48 kWh                                                                           |
|                     | Usable energy <sup>2</sup>         | 6.91 kWh                                                                                                                                                                                             | 9.21 kWh                                                                            | 11.52 kWh                                                                           | 13.82 kWh                                                                           | 16.12 kWh                                                                           | 18.43 kWh                                                                           |
|                     | Nominal voltage                    | 153.6 V                                                                                                                                                                                              | 204.8 V                                                                             | 256 V                                                                               | 307.2 V                                                                             | 358.4 V                                                                             | 409.6 V                                                                             |
|                     | Operating voltage range            | 120 V ~ 175.2 V                                                                                                                                                                                      | 160 V ~ 233.6 V                                                                     | 200 V ~ 292 V                                                                       | 240 V ~ 350.4 V                                                                     | 280 V ~ 408.8 V                                                                     | 320 V ~ 467.2 V                                                                     |
|                     | Max.charging current               | 25 A                                                                                                                                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| General Data        | Max.discharging current            | 30 A                                                                                                                                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                     | Rated charging / discharging power | 3.84kW                                                                                                                                                                                               | 5.12 kW                                                                             | 6.40 kW                                                                             | 7.68 kW                                                                             | 8.86 kW                                                                             | 10.24 kW                                                                            |
|                     | Max.charging power                 | 3.84kW                                                                                                                                                                                               | 5.12 kW                                                                             | 6.40 kW                                                                             | 7.68 kW                                                                             | 8.86 kW                                                                             | 10.24 kW                                                                            |
|                     | Max.discharging power              | 4.61 kW                                                                                                                                                                                              | 6.14 kW                                                                             | 7.68 kW                                                                             | 9.22 kW                                                                             | 10.75 kW                                                                            | 12.29 kW                                                                            |
|                     | Dimensions (W / D / H)             | 540*390*600 mm                                                                                                                                                                                       | 540*390*730 mm                                                                      | 540*390*860 mm                                                                      | 540*390*990 mm                                                                      | 540*390*1120 mm                                                                     | 540*390*1250 mm                                                                     |
|                     | Weight                             | 106.5 kg                                                                                                                                                                                             | 137 kg                                                                              | 167.5 kg                                                                            | 198 kg                                                                              | 228.5 kg                                                                            | 259 kg                                                                              |
|                     | Battery module weight              | 30.5 kg                                                                                                                                                                                              |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                     | Installation location              | Indoor / Outdoor                                                                                                                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                     | Mounting method                    | Floor mounted                                                                                                                                                                                        |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                     | Operating temperature range        | Charge: 0 ~ 50 °C<br>Discharge: -20 °C ~ 50 °C                                                                                                                                                       |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                     | Storage temperature range          | -20 °C ~ 45 °C                                                                                                                                                                                       |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                     | Cooling concept                    | Natural convection                                                                                                                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                     | Degree of protection               | IP65                                                                                                                                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                     | Relative humidity                  | 5 ~ 95 %, non - condensing                                                                                                                                                                           |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                     | Communication                      | CAN                                                                                                                                                                                                  |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                     | Certification                      | IEC 62619 / EN 61000<br>IEC 62040 / UN38.3                                                                                                                                                           |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                     | Life cycle <sup>3</sup>            | 6000 times                                                                                                                                                                                           |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                     | Protection                         | Charging over-voltage protection, discharging under-voltage protection, over-current protection, over-temperature protection, short-circuit protection, built-in fire suppression <sup>4</sup> , etc |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                     | Round-trip efficiency              | ≥95%                                                                                                                                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |

1. Nominal energy is defined under the following conditions: cell voltage 2.5~3.65V, 0.5C charge & discharge at +25°C.  
2. Usable energy is defined under the following conditions: 0.5C charge & discharge at +25°C, 90% DOD. Usable energy may vary depending on discharge, charge, environmental conditions and SOC % limits defined by the user.  
3. Life cycle is defined under the following conditions: 0.5C charge & discharge at +25°C, 90% DOD, 70% EOL  
4. Available with or without built-in fire suppression functionality, this feature was released in August 2024, please confirm version with Solplanet sales before purchase.

# Ai-HB Series



Model:  
Ai-HB 2.56LG



Safety

- LFP safe technology
- All-round BMS protection
- Modular design with simple cable connections



Safe & reliable

- IP65 rated design
- High quality cell inside



User-friendly

- Expandable up to 25.6 kWh (10 modules)
- Multi-use applications: self-consumption, time of use tariffs, customisation
- Online monitoring via Solplanet apps

Technical Datasheet

|              |                                           |                                                  |                          |                       |                          |                          |                          |                          |                       |
|--------------|-------------------------------------------|--------------------------------------------------|--------------------------|-----------------------|--------------------------|--------------------------|--------------------------|--------------------------|-----------------------|
| System Data  | Battery module                            | Ai-HB 2.56LG                                     |                          |                       |                          |                          |                          |                          |                       |
|              | Battery designation                       |                                                  |                          |                       |                          |                          |                          |                          |                       |
|              | Cell type                                 | LiFePO4                                          |                          |                       |                          |                          |                          |                          |                       |
|              | Module quantity                           | 3                                                | 4                        | 5                     | 6                        | 7                        | 8                        | 9                        | 10                    |
|              | Rated capacity                            | 50Ah                                             |                          |                       |                          |                          |                          |                          |                       |
|              | Nominal energy <sup>1</sup>               | 7.68 kWh                                         | 10.24 kWh                | 12.8 kWh              | 15.36 kWh                | 17.92 kWh                | 20.48 kWh                | 23.04 kWh                | 25.6 kWh              |
|              | Usable energy <sup>2</sup>                | 6.91 kWh                                         | 9.21 kWh                 | 11.52 kWh             | 13.82 kWh                | 16.12 kWh                | 18.43 kWh                | 20.73 kWh                | 23.04 kWh             |
|              | Nominal voltage                           | 153.6 V                                          | 204.8 V                  | 256 V                 | 307.2 V                  | 358.4 V                  | 409.6 V                  | 460.8 V                  | 512 V                 |
|              | Operating voltage range                   | 134.4 V<br>~<br>168.4 V                          | 179.2 V<br>~<br>224.64 V | 224 V<br>~<br>280.8 V | 268.8 V<br>~<br>336.96 V | 313.6 V<br>~<br>393.12 V | 358.4 V<br>~<br>449.28 V | 403.2 V<br>~<br>505.44 V | 448 V<br>~<br>561.6 V |
|              | Nominal charging /<br>discharging current | 25 A                                             |                          |                       |                          |                          |                          |                          |                       |
| General Data | Max. charging /<br>discharging current    | 50 A                                             |                          |                       |                          |                          |                          |                          |                       |
|              | Rated power                               | 3.84kW                                           | 5.12 kW                  | 6.4 kW                | 7.68 kW                  | 8.86 kW                  | 10.24 kW                 | 11.52kW                  | 12.8 kW               |
|              | Max. charging /<br>discharging power      | 7.68 kW                                          | 10.24 kW                 | 12.8 kW               | 15.36 kW                 | 17.92 kW                 | 20.48 kW                 | 23.04 kW                 | 25.6 kW               |
|              | Dimensions (W/D/H)                        | 600/210/820 mm                                   | 600/210/980 mm           | 600/210/1140 mm       | 600/210/1300 mm          | 600/210/1460 mm          | 600/210/1620 mm          | 600/210/1780 mm          | 600/210/1940 mm       |
|              | Weight                                    | 102.5 kg                                         | 129 kg                   | 155.5 kg              | 182 kg                   | 208.5 kg                 | 235 kg                   | 261.5 kg                 | 288 kg                |
|              | Battery module weight                     | 26.5 kg                                          |                          |                       |                          |                          |                          |                          |                       |
|              | Installation location                     | Indoor / Outdoor                                 |                          |                       |                          |                          |                          |                          |                       |
|              | Mounting method                           | Floor mounted                                    |                          |                       |                          |                          |                          |                          |                       |
|              | Operating temperature range               | Charge: 0°C ~ 55 °C<br>Discharge: -20 °C ~ 55 °C |                          |                       |                          |                          |                          |                          |                       |
|              | Storage temperature range                 | -20 °C ~ 45 °C                                   |                          |                       |                          |                          |                          |                          |                       |
| General Data | Cooling concept                           | Natural convection                               |                          |                       |                          |                          |                          |                          |                       |
|              | Degree of protection                      | IP65                                             |                          |                       |                          |                          |                          |                          |                       |
|              | Relative humidity                         | 5%~95 %, non-condensing                          |                          |                       |                          |                          |                          |                          |                       |
|              | Communication                             | RS485 / CAN                                      |                          |                       |                          |                          |                          |                          |                       |
|              | Certification                             | IEC 62619 / EN 61000<br>IEC 62040 / UN38.3       |                          |                       |                          |                          |                          |                          |                       |
|              | Life cycle <sup>3</sup>                   | 6000 times                                       |                          |                       |                          |                          |                          |                          |                       |
|              | Round-trip efficiency                     | ≥95%                                             |                          |                       |                          |                          |                          |                          |                       |

1. Nominal energy is defined under the following conditions: cell voltage 2.0~3.65V, 0.5C charge & discharge at +25°C.  
2. Usable energy is defined under the following conditions: 0.5C charge & discharge at +25°C, 90% DOD. Usable energy may vary depending on discharge, charge, environmental conditions and SOC % limits defined by the user.  
3. Life cycle is defined under the following conditions: 0.2C charge & discharge at +25°C, 90% DOD, 80% EOL.

# Ai-LB Series



Models:  
Ai-LB 5K  
Ai-LB 10K



Safety

- LFP safe technology
- All-round BMS protection



Safe & reliable

- IP65 rated design for outdoor use
- High quality cell inside



User-friendly

- Supporting Multi-use applications
- Online monitoring via Solplanet apps

Technical Datasheet

|              |                                     | Ai-LB 5K                                      | Ai-LB 10K                    |
|--------------|-------------------------------------|-----------------------------------------------|------------------------------|
| System Data  | Cell type                           | LiFePO4                                       |                              |
|              | Battery module                      | LB51100A                                      |                              |
|              | Module number                       | 1                                             | 2                            |
|              | Rated capacity                      | 100 Ah                                        | 200 Ah                       |
|              | Nominal energy <sup>1</sup>         | 5.12 kWh                                      | 10.24 kWh                    |
|              | Usable energy <sup>2</sup>          | 4.61 kWh                                      | 9.22 kWh                     |
|              | Nominal battery voltage             | 51.2 V                                        |                              |
|              | Battery voltage range               | 44.8 V - 57.6 V                               |                              |
|              | Max. charging / discharging current | 50 A                                          | 100 A                        |
|              | Rated charging / discharging power  | 2.56 kW                                       | 5.12 kW                      |
| General Data | Max. charging / discharging power   | 2.56 kW                                       | 5.12 kW                      |
|              | Dimensions(W/D/H)                   | 490 / 150 / 680 mm                            | 640 / 181 / 1017 mm          |
|              | Module weight                       | 44.5 kg                                       |                              |
|              | Weight                              | 57 kg                                         | 116 kg                       |
|              | Installation location               | indoor / outdoor                              |                              |
|              | Mounting method                     | Floor Mounted                                 | Floor Mounted / Wall Mounted |
|              | Operating temperature range         | Charge: 0°C ~ 55°C<br>Discharge: -20°C ~ 55°C |                              |
|              | Storage temperature range           | -20°C ~ 55°C                                  |                              |
|              | Cooling concept                     | Natural convection                            |                              |
|              | Degree of protection                | IP65                                          |                              |
|              | Relative humidity                   | 5%~95%, non-condensing                        |                              |
|              | Max. operating altitude             | 3000m                                         |                              |
|              | Scalability                         | Max.8 sets in parallel                        | Max.4 sets in parallel       |
|              | Communication                       | CAN                                           |                              |
|              | Certification                       | TUV/IEC 62619/IEC 62040/IEC 61000/UN38.3      |                              |
|              | Life cycle <sup>3</sup>             | 6000 times                                    |                              |
|              | Round-trip efficiency               | ≥95%                                          |                              |

1. Nominal energy is defined under the following conditions: battery voltage 44.8~57.6V, 0.5C charge & discharge at +25°C.  
2. Usable energy is defined under the following conditions: 0.5C charge & discharge at +25°C, 90% DOD.  
3. Life cycle is defined under the following conditions: 0.5C charge & discharge at 25°C, 90% DOD, 70% EOL.



# Ai-LB Pro Series



Models:  
Ai-LB 5K Pro  
Ai-LB 10K Pro



Efficient and Intelligent

- Max. discharging rate up to 1C.
- Expandable up to 160 kWh (32 units for Ai-LB 5K Pro and 16 units for Ai-LB 10K Pro in parallel)
- Automatic identification of parallel master and slave machines
- Online monitoring via Solplanet apps



Safe & reliable

- LFP safe technology
- All-round BMS protection
- High quality cell inside
- IP65 rated design for outdoor use



Widely Applicable

- Charging at low temperature -5°C
- Multi-use applications: self-consumption, time of use tariffs, customisation



User-friendly

- Elegant design with hidden cable connection
- Compact and lightweight design
- Floor/wall mounted, stackable design, easy to install with basic tools

Technical Datasheet

|              |                                     | Ai-LB 5K Pro                                     | Ai-LB 10K Pro           |
|--------------|-------------------------------------|--------------------------------------------------|-------------------------|
| System Data  | Cell type                           | LiFePO4                                          |                         |
|              | Rated capacity                      | 100 Ah                                           | 200 Ah                  |
|              | Nominal energy <sup>1</sup>         | 5.12 kWh                                         | 10.24 kWh               |
|              | Usable energy <sup>2</sup>          | 4.61 kWh                                         | 9.22 kWh                |
|              | Nominal battery voltage             | 51.2 V                                           |                         |
|              | Battery voltage range               | 44.8 V - 58.4 V                                  |                         |
|              | Max. charging / discharging current | 60A / 100A                                       | 120A / 120A             |
|              | Rated charging/discharging power    | 3.07 kW                                          | 6.14 kW                 |
|              | Max. charging / discharging power   | 3.07 kW / 5.12 kW                                | 6.14 kW / 6.14 kW       |
| General Data | Dimensions(W/D/H)                   | 460 / 165 / 652 mm                               | 550 / 165 / 867 mm      |
|              | Weight                              | 50 kg                                            | 94 kg                   |
|              | Installation location               | indoor / outdoor                                 |                         |
|              | Mounting method                     | Floor mounted / Wall mounted                     |                         |
|              | Operating temperature range         | Charging: -5°C ~ 55°C<br>Discharge: -15°C ~ 55°C |                         |
|              | Storage temperature range           | -10°C - 50°C                                     |                         |
|              | Cooling concept                     | Natural convection                               |                         |
|              | Degree of protection                | IP65                                             |                         |
|              | Relative humidity                   | 5% - 95% RH, non-condensing                      |                         |
|              | Max. operating altitude             | 3000m                                            |                         |
|              | Scalability                         | Max.32 sets in parallel                          | Max.16 sets in parallel |
|              | Communication                       | CAN / RS485 / Dry Contact / WiFi                 |                         |
|              | Certification                       | TUV / IEC 62619 / IEC 62040 / IEC 61000 / UN38.3 |                         |
|              | Life cycle <sup>3</sup>             | 6000 times                                       |                         |
|              | Round-trip efficiency               | ≥ 95%                                            |                         |

1. Nominal energy is defined under the following conditions: battery voltage 44~58.4V, 0.5C charge & discharge at +25°C.  
2. Usable energy is defined under the following conditions: 0.5C charge & discharge at +25°C, 90% DOD.  
3. Life cycle is defined under the following conditions: 0.5C charge & discharge at 25°C, 90% DOD, 70% EOL.

# Ai-LB-G3 Series



Models:  
ASW5120-LB-G3



### Optimal performance

- Low self and standby consumption
- Enhanced SOC measurement accuracy for optimal battery management
- Supports up to 1C charge / discharge rate



### Safe & reliable

- IP66 rated design for indoor and outdoor use
- Designed in accordance with global safety standards
- Integrated fire suppression system
- Smarter and safer battery management system for precise diagnostics
- Integrated MOSFET and dual fuse protection for superior safety and reliability.



### User-friendly

- Stackable up to 4 modules, 20.48 kWh per tower
- Elegant design with concealed cable management
- Compact, lightweight modules for easier handling and installation
- 5 selections for operating (LED) indicator via Solplanet App

### Technical Datasheet

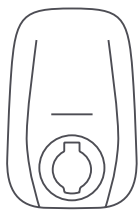
|              | Battery module                         | ASW5120-LB-G3                                          |                    |                    |                     |
|--------------|----------------------------------------|--------------------------------------------------------|--------------------|--------------------|---------------------|
|              |                                        | 1                                                      | 2                  | 3                  | 4                   |
| System Data  | Module number                          |                                                        |                    |                    |                     |
|              | Cell type                              | LiFePO4                                                |                    |                    |                     |
|              | Rated capacity                         | 100 Ah                                                 |                    |                    |                     |
|              | Nominal energy <sup>1</sup>            | 5.12 kWh                                               | 10.24 kWh          | 15.36 kWh          | 20.48 kWh           |
|              | Usable energy <sup>2</sup>             | 4.86 kWh                                               | 9.72 kWh           | 14.59 kWh          | 19.45 kWh           |
| General Data | Nominal battery voltage                | 51.2 V                                                 |                    |                    |                     |
|              | Battery voltage range                  | 40 V ~ 58.4 V                                          |                    |                    |                     |
|              | Recommended charge / discharge current | 60 A                                                   | 120 A              | 180 A              | 210 A               |
|              | Max. charge / discharge current        | 100 A                                                  | 200 A              | 210 A              | 210 A               |
|              | Rated charge / discharge power         | 3.07 kW                                                | 6.14 kW            | 9.22 kW            | 10.75 kW            |
|              | Max. charge / discharge power          | 5.12 kW                                                | 10.24 kW           | 10.75 kW           | 10.75 kW            |
|              | Dimensions (W / D / H)                 | 630 / 185 / 320 mm                                     | 630 / 185 / 640 mm | 630 / 185 / 960 mm | 630 / 185 / 1280 mm |
|              | Module weight                          | 46.0 kg                                                | 92.0 kg            | 138.0 kg           | 184.0 kg            |
|              | Base weight                            | 2.6 kg                                                 |                    |                    |                     |
|              | Installation location                  | Indoor / Outdoor                                       |                    |                    |                     |
|              | Mounting method                        | Floor mounted / Wall mounted                           |                    |                    |                     |
|              | Operating temperature range            | Charging: -8 °C ~ 58 °C<br>Discharging: -18 °C ~ 58 °C |                    |                    |                     |
|              | Storage temperature range              | -20°C ~ 60°C                                           |                    |                    |                     |
|              | Cooling concept                        | Natural convection                                     |                    |                    |                     |
|              | Protective class                       | II                                                     |                    |                    |                     |
|              | Degree of protection                   | IP66                                                   |                    |                    |                     |
|              | Relative humidity                      | 0 % ~ 95 % RH, non-condensing                          |                    |                    |                     |
|              | Max. operating altitude                | 4000 m (> 3000 m derating)                             |                    |                    |                     |
|              | Communication                          | CAN                                                    |                    |                    |                     |
|              | Certification                          | IEC 62619, IEC 62040, IEC 62477, IEC 63056, IEC 61000  |                    |                    |                     |
|              | Life cycle <sup>3</sup>                | 6000 times                                             |                    |                    |                     |
|              | Round-trip efficiency                  | ≥ 95 %                                                 |                    |                    |                     |

1. Nominal energy is defined under the following conditions: battery voltage 40 ~ 58.4 V, 0.5C charge & discharge at +25°C.  
2. Usable energy is defined under the following conditions: 0.5C charge & discharge at +25°C, 95% DOD.  
3. Life cycle is defined under the following conditions: 0.5C charge & discharge at 25°C (One cycle a day), 90% DOD, 70% EOL.



# Smart EV Charger

Driving towards  
a green future



SOL APOLLO SERIES

SOL7.4H-WP, SOL7.4H-WS, SOL7.4H-WSS  
SOL11H-WP, SOL11H-WS, SOL11H-WSS  
SOL22H-WP, SOL22H-WS, SOL22H-WSS



# SOL APOLLO Series



Models:  
SOL7.4H-WP, SOL7.4H-WS, SOL7.4H-WSS  
SOL11H-WP, SOL11H-WS, SOL11H-WSS  
SOL22H-WP, SOL22H-WS, SOL22H-WSS



### Easy-to-install

- Compact, lightweight and wall mountable
- Easy-to-install with standard tools
- Toolless plug in terminal blocks
- Quick set-up via Bluetooth and APP
- Cable entry on the front or rear of the housing



### Reliable

- Elegant design with a dynamic and robust streamlined body
- IP65 enclosure suitable for outdoor use
- IK10 protection rating
- TÜV IEC 61851-1 & CE compliant



### Smart & User-Friendly

- Intelligent App for remote control and monitoring
- Scheduled charging and off-peak charging modes
- APP & RFID & NFC for user authentication or easy set up to Plug & Play mode
- Communication capabilities including WiFi, Bluetooth, and Ethernet connectivity
- Solar charging under Solar PV & Eco Mode (optional)

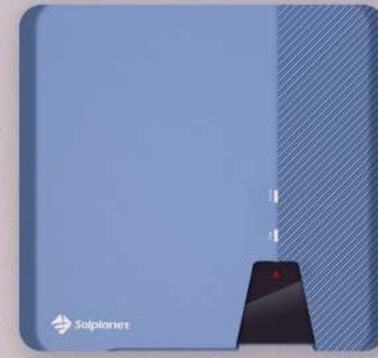
### Technical Datasheet

| Input & Output           | Rated Voltage               | 230 V AC                       |                              |             | 400 V AC                     |             |                              |
|--------------------------|-----------------------------|--------------------------------|------------------------------|-------------|------------------------------|-------------|------------------------------|
|                          | Rated Frequency             | 50 Hz / 60 Hz                  |                              |             |                              |             |                              |
|                          | Max. Output Power           | 7.4 kW                         |                              | 11 kW       |                              | 22 kW       |                              |
|                          | Max. Output Current         | 32 A                           |                              | 16 A        |                              | 32 A        |                              |
|                          | Standby Power Consumption   | < 5 W                          |                              |             |                              |             |                              |
|                          | Residual Current Detection  | DC 6 mA                        |                              |             |                              |             |                              |
|                          | Connector Type (IEC62196-2) | Type 2                         | Type 2 socket <sup>1,2</sup> | Type 2      | Type 2 socket <sup>1,2</sup> | Type 2      | Type 2 socket <sup>1,2</sup> |
|                          | Cable Length                | 5 m / 7.5 m                    | -                            | 5 m / 7.5 m | -                            | 5 m / 7.5 m | -                            |
| User Interface & Control | Network Interface           | WIFI & Bluetooth & RS485 & LAN |                              |             |                              |             |                              |
|                          | RFID/NFC Reader             | ●                              |                              |             |                              |             |                              |
|                          | Status Indication           | LED Light strip                |                              |             |                              |             |                              |
|                          | Smart APP                   | ●                              |                              |             |                              |             |                              |
| Working Environment      | Ingress Protection          | IP65 (Enclosure)               |                              |             |                              |             |                              |
|                          | Operating Temperature       | -25°C to 50°C                  |                              |             |                              |             |                              |
|                          | Storage Temperature         | -40°C to 70°C                  |                              |             |                              |             |                              |
|                          | Relative Humidity           | 5%-95% Non-condensing          |                              |             |                              |             |                              |
|                          | Altitude                    | Up to 2000 m                   |                              |             |                              |             |                              |
|                          | Cooling Concept             | Natural Convection             |                              |             |                              |             |                              |
| Mechanical               | Impact Protection Class     | IK10                           |                              |             |                              |             |                              |
|                          | UV Resistant                | ●                              |                              |             |                              |             |                              |
|                          | Mounting                    | Wall / Pedestal                |                              |             |                              |             |                              |
|                          | Dimensions (W/H/D)          | 230 / 360 / 130 mm             |                              |             |                              |             |                              |
|                          | Weight                      | 5.1 kg                         | 2.6 kg                       | 5.1 kg      | 2.6 kg                       | 5.1 kg      | 2.6 kg                       |
|                          | Colour                      | ● Morandi Blue / ● Black       |                              |             |                              |             |                              |
|                          | Cable Holder                | ●                              | -                            | ●           | -                            | ●           | -                            |
| Safety                   | DC Leakage Protection       | ●                              |                              |             |                              |             |                              |
|                          | Over Temperature Protection | ●                              |                              |             |                              |             |                              |
|                          | Ground Protection           | ●                              |                              |             |                              |             |                              |
|                          | Surge Protection (EN60664)  | ● (Type III)                   |                              |             |                              |             |                              |
|                          | Certification               | CE, TUV / EN/IEC 61851-1       |                              |             |                              |             |                              |

● Standard features    ○ Optional features Not Available  
1) Self-closing cover and built in electronic lock is standard  
2) Shutter for cover is optional  
3) Optional energy meter for solar charging function and dynamic load balancing



# Connect & monitor



Smart cloud-based  
monitoring  
& communication  
systems

## CLOUD BASED MONITORING

Solplanet Cloud and App



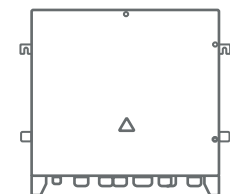
## COM STICK SERIES

Wi-Fi Stick  
Ai-Dongle LAN/WLAN  
Ai-Dongle 4G  
Ai-Logger 1000

Ai-Logger 2000



Ai-AMU 2000





# Cloud & App



PV Plant monitoring plays an important role in our approach to revolutionizing access to solar energy. Your energy generation and consumption are presented in simple and easy to read graphs giving you a complete picture of your daily, monthly and yearly usage. Our monitoring solution will help you adjust your consumption behaviours to match your generation allowing you to make the most of your PV plant.

Real time and historical data are readily available via our cloud-based monitoring portal, allowing you to compare your current performance to past results. Solplanet Cloud, our new online monitoring portal, is perfect for home owners, business owners and PV developers who want to monitor their PV Plants from anywhere in the world.

### Easy-to-install

- Quick setup and commissioning of Solplanet inverters
- Quick active/reactive and export power control setup
- Available on Android and iOS devices and accessible via web browsers

### Reliable

- Cloud-based monitoring system
- Centralized management of all plant data

### User-friendly

- Intuitive navigation
- Clear readability of key plant data
- Performance reports sent via email

To download the app search for “Solplanet” or simply scan the QR codes:



# Wi-Fi Stick



# Ai-Dongle LAN/WLAN



The Ai-Dongle LAN/WLAN/ Wi-Fi Stick allow Solplanet inverters to connect to the Solplanet Cloud and App. The inverter and meter data is collected and sent to the Solplanet Cloud via the internet to allow for easy PV plant monitoring.

### Smart

- Smart zero export control design

### Simple

- Easy to install on site

### Reliable

- Adapt to various application scenarios

### Technical Datasheet

|                         |                                    | Wi-Fi Stick                  | ASW-WLAN-G1          |
|-------------------------|------------------------------------|------------------------------|----------------------|
| Device Management       | Max. Number of Manageable Devices  | 5                            | 10                   |
|                         |                                    |                              |                      |
| Communication Interface | North Communication                | LAN                          | /                    |
|                         |                                    | WLAN                         | 2.4GHz 802.11 b/g/n  |
|                         | South Communication                | RS 485 (USB Type A)          |                      |
| Interaction             | LED                                | LED Indicator x 2            |                      |
|                         | APP                                | Solplanet APP                |                      |
| Environment             | Operating Temperature Range        | -40°C ~ 60°C (-40°F ~ 140°F) |                      |
|                         | Storage Temperature                | -40°C ~ 70°C (-40°F ~ 158°F) |                      |
|                         | Relative Humidity (Non-condensing) | 5% ~ 95%                     |                      |
|                         | Max. Operating Altitude            | 3,000m(9, 842 ft.)           | 4,000 m (13,123 ft.) |
| Electrical              | DC Power Supply                    | 7 ~ 9V                       | 5 ~ 12V              |
|                         | Power Consumption                  | Typical 2 W, Max. 5 W        |                      |
| Mechanical              | Dimensions (W x H x D)             | 51mm*112mm*27mm              | 50mm*34mm*170mm      |
|                         | Weight                             | 62g                          | 100g                 |
|                         | Protection Degree                  | IP65                         | IP66                 |
|                         | Certificate                        | CE                           |                      |



# Ai-Dongle 4G



The Ai-Dongle 4G allows Solplanet inverters to connect to the Solplanet Cloud and App. The inverter and meter data is collected and sent to the Solplanet Cloud via the internet to allow for easy PV plant monitoring.

- Smart
- Simple
- Reliable
- 4G communication
- Plug and play design, easy-to-install
- IP66

| Technical Datasheet     |                                    |                                                                                              | ASW-4G-G1 |
|-------------------------|------------------------------------|----------------------------------------------------------------------------------------------|-----------|
| Device Management       | Max. Number of Manageable Devices  | 5                                                                                            |           |
|                         |                                    |                                                                                              |           |
| Communication Interface | Sim card type                      | Micro SIM (12×15mm)                                                                          |           |
|                         | Supported standards & frequencies  | LTE-FDD:B1/B3/B5/B7/B8/B20/B28<br>LTE-TDD:B38/B40/B41<br>GSM:GSM850/EGSMB900/DCS1800/PCS1900 |           |
|                         | Wi-Fi Operation Mode               | AP                                                                                           |           |
|                         | Supported standards & frequencies  | 802.11b/g/n (2.412G ~ 2.484G)                                                                |           |
|                         | South Communication                | RS 485 (USB Type A)                                                                          |           |
| Inter-action            | LED                                | LED Indicator x 2                                                                            |           |
|                         | APP                                | Solplanet APP                                                                                |           |
| Environment             | Operating Temperature Range        | -40°C ~ 60°C (-40°F ~ 140°F)                                                                 |           |
|                         | Storage Temperature                | -40°C ~ 70°C (-40°F ~ 158°F)                                                                 |           |
|                         | Relative Humidity (Non-condensing) | 5% ~ 95%                                                                                     |           |
|                         | Max. Operating Altitude            | 4,000 m (13,123 ft.)                                                                         |           |
| Elec-trical             | DC Power Supply                    | 5 ~ 12V                                                                                      |           |
|                         | Power Consumption                  | Typical 6.5 W, Max. 10 W                                                                     |           |
| Mechanical              | Dimensions (W x H x D)             | 50mm*34mm*154mm                                                                              |           |
|                         | Weight                             | 100g                                                                                         |           |
|                         | Protection Degree                  | IP66                                                                                         |           |

Ai-Logger 1000 data logger

# Ai-Logger 1000



Ai-Logger 1000 data logger allows Solplanet inverters to connect to the Solplanet Cloud. The inverter and meter data is collected and sent to the Solplanet Cloud via the internet to allow for easy PV plant monitoring.

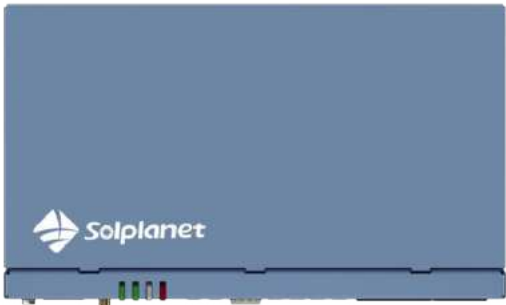
- Smart
- Simple
- Reliable
- Smart zero export control design
- Easy to install on site
- Adapt to various application scenarios

| Technical Datasheet     |                                    |                                 | Ai-Logger 1000                                      |
|-------------------------|------------------------------------|---------------------------------|-----------------------------------------------------|
| Device Management       | Max. Number of Manageable Devices* |                                 | 80                                                  |
| Communication Interface | North Communication                | LAN                             | LAN x 1, 10 / 100 / 1000 Mbps                       |
|                         | South Communication                | RS485                           | COM x 3, 1000 m                                     |
|                         | Others                             | Digital / Analog Input / Output | DI x 4, DO x 2                                      |
| Interaction             | LED                                |                                 | LED Indicator x 4 – COM 1~3, North communication    |
|                         | WEB                                |                                 | Embedded Web                                        |
|                         | USB                                |                                 | USB 2.0 × 1                                         |
|                         | RST                                |                                 | 1                                                   |
| Environment             | Operating Temperature Range        |                                 | -40°C ~ 60°C (-40°F ~ 140°F)                        |
|                         | Storage Temperature                |                                 | -40°C ~ 70°C (-40°F ~ 158°F)                        |
|                         | Relative Humidity (Non-condensing) |                                 | 5% ~ 95%                                            |
|                         | Max. Operating Altitude            |                                 | 4,000 m (13,123 ft.)                                |
| Electrical              | DC Power Supply                    |                                 | 12 V ~ 24 V / 2 A                                   |
|                         | Power Consumption                  |                                 | Typical 8 W, Max. 15 W                              |
| Mechanical              | Dimensions (W x H x D)             |                                 | 240 mm × 126 mm × 42 xmm                            |
|                         | Weight                             |                                 | 453 g                                               |
|                         | Protection Degree                  |                                 | IP20                                                |
|                         | Installation Options               |                                 | Wall Mounting, DIN Rail Mounting, Tabletop Mounting |

\* Each 485 interface can connect up to 30 inverters or 1 smart meter.

# Ai-Logger 2000

Ai-Logger 2000 high-performance data logger by Solplanet, is used for monitoring inverters, transformer stations, as well as third-party electricity meters and environmental monitoring instruments,etc. By managing inverters, collecting data and adjusting the operating status. It serves as a key connection node between inverters and photovoltaic power plant monitoring systems, enabling real-time monitoring and management scheduling of photovoltaic plant data, effectively enhancing the efficiency of power plant management and maintenance.



### Safer

- Source data desensitization and encrypted communication links

### Smarter

- Multi-scenario system control

### More efficient

- Real-time response and rapid operations maintenance, effectively ensuring the safe operation of power stations

### More reliable

- Adaptable to extreme application environments with long operational uptime

## Technical Datasheet

Ai-Logger 2000

|                              |                                            |                                                       |
|------------------------------|--------------------------------------------|-------------------------------------------------------|
| Device Management            | Max. number of devices access to RS485     | 180                                                   |
|                              | Max. number of devices access to each port | RS485: 30 ; ABUS:80; LAN / FE:32                      |
| Northbound Interface         | WAN                                        | 2×WAN                                                 |
|                              | Optical fiber                              | 2×SFP                                                 |
| Southbound Interface         | LAN                                        | 4×LAN                                                 |
|                              | Serial port                                | 6×RS485                                               |
|                              | AI port                                    | 4×AI                                                  |
|                              | DI port                                    | 4×DI                                                  |
|                              | DO port                                    | 4×DO                                                  |
|                              | PT100 / PT1000                             | 2×PT100 / PT1000                                      |
|                              | ABUS                                       | Max. voltage 800 V (±10%)                             |
| Power                        | DC power input                             | 24V / 0.8A DC, 12V / 2A DC                            |
|                              | Consumption                                | Typical 8 W ; Max. 15 W                               |
|                              | DC power output                            | 12 V / 100 mA                                         |
| Human Machine Interface(HMI) | Indicator                                  | 3×LED ; RUN, SERV, ALM                                |
|                              | Commissioning                              | Embedded Web                                          |
|                              | USB                                        | 1×USB 2.0                                             |
| Environmental Parameter      | Operating temperature                      | -30°C~60°C                                            |
|                              | Storage temperature                        | -40°C~70°C                                            |
|                              | Relative humidity                          | 5%~95%, non-condensing                                |
|                              | Altitude                                   | Max. 5000 m                                           |
| Machanical Parameter         | Dimensions (W / H / D)                     | 242 / 142 / 51.5mm (without installation accessories) |
|                              | Weight                                     | 1.4 kg                                                |
|                              | Ingress protection                         | IP20                                                  |
|                              | Mounting method                            | Wall-mounted, rail-mounted, desktop                   |

\* Each 485 interface can connect up to 30 inverters or 1 environmental monitoring instrument or 1 electricity meter.

# Ai-AMU 2000

The Ai-AMU 2000 photovoltaic array management unit from Solplanet is a highly integrated and intelligent all-in-one communication cabinet specically developed for utility scenarios. It can achieve real-time monitoring of PV plant data, prevent the PID effects of PV modules, and adapt to an optical fiber ring network. Serving as a key connection node between the photovoltaic array system and the power plant monitoring system, it intelligently manages the photovoltaic array, helping users enhance the management and operational efficiency of photovoltaic power plants.



### More flexible and smarter

- Support connection of up to 180n inverters, with one-stop calibration and deployment

### Simpler and easier to use

- Provide embedded web services for quick steup and convenient parameter settings

### More stable and reliable

- Industrial-grade cpmponent selection with built-in high-performance surge protectors ensuring safety and reliability

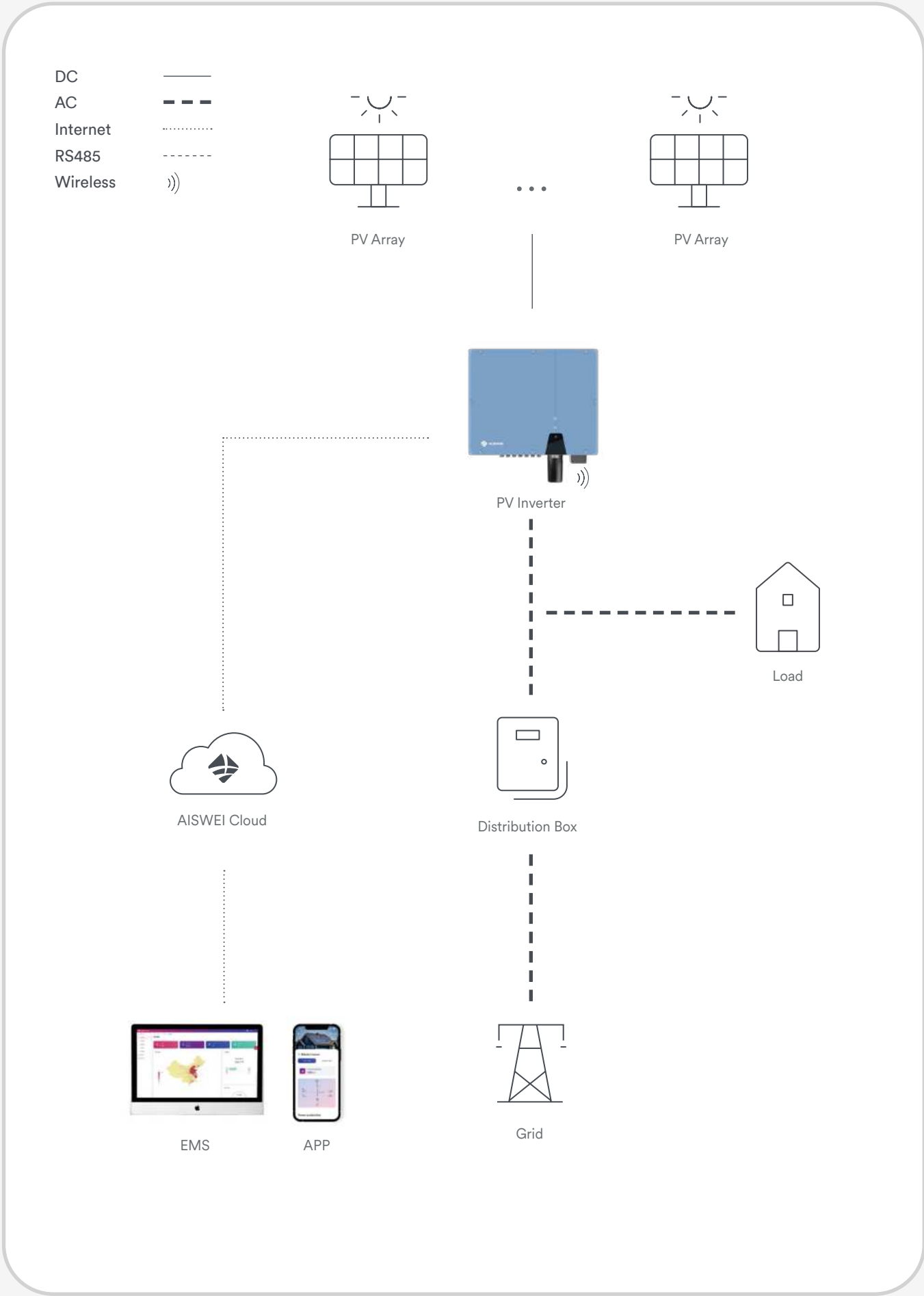
## Technical Datasheet

Ai-AMU 2000

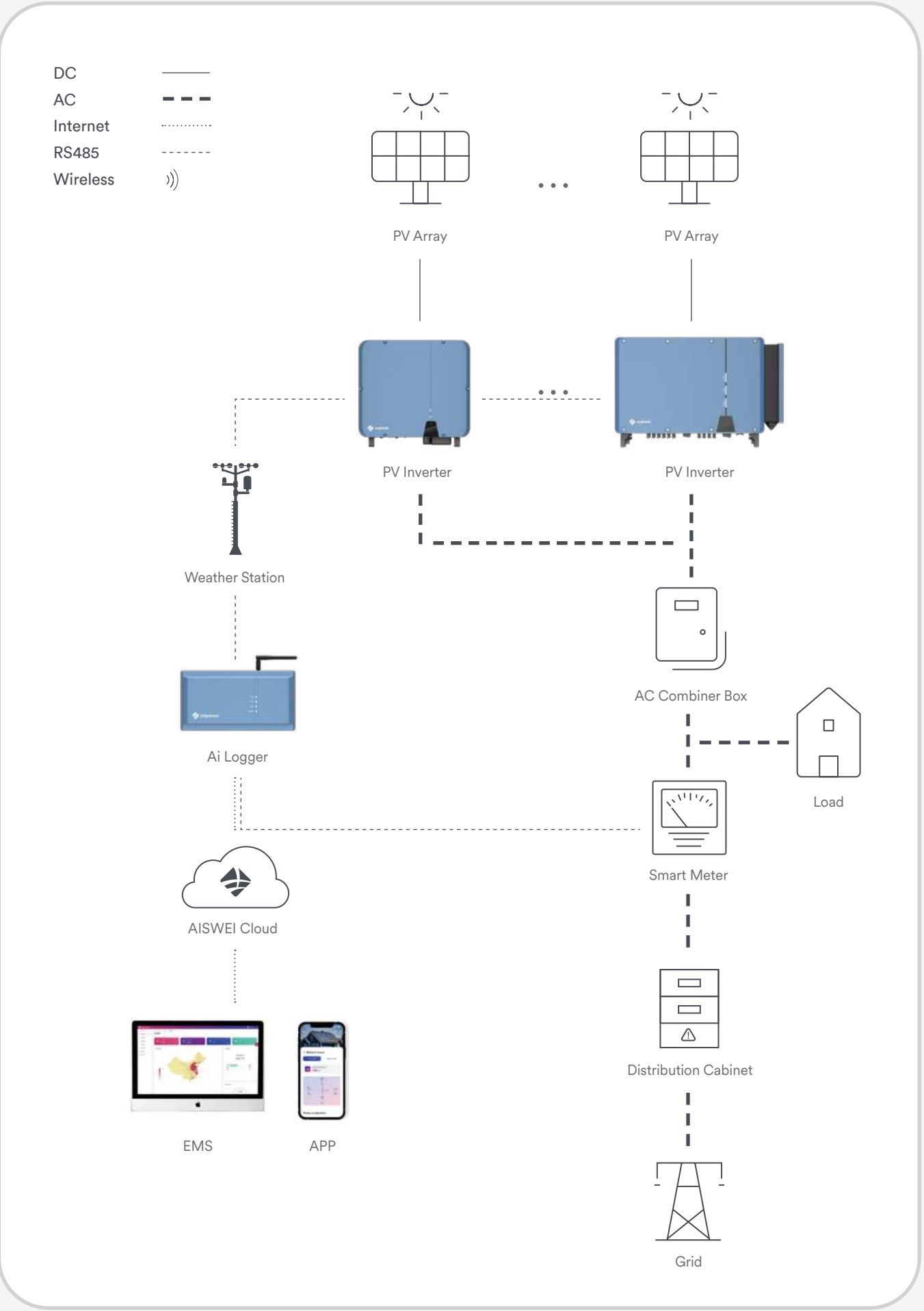
|                         |                         |                                                       |
|-------------------------|-------------------------|-------------------------------------------------------|
| Basic Parameter         | Built-in data collector | Ai-Logger 2000                                        |
|                         | Ethernet                | 2×WAN04×LAN                                           |
|                         | RS485                   | 6×RS485                                               |
|                         | DI / DO / AI            | 4×DI / 4×DO / 4×AI                                    |
|                         | PT100 / PT1000          | 2                                                     |
|                         | Fiber                   | 2×SFP                                                 |
|                         | USB                     | 1                                                     |
|                         | ABUS port               | 2                                                     |
|                         | Anti-PID module         | 2                                                     |
| Environmental Parameter | Operating temperature   | -30°C~60°C                                            |
|                         | Relative humidity       | 0%~100%, non-condensing                               |
|                         | Altitude                | Max. 5000 m                                           |
| Electrical Parameter    | AC input voltage        | 100V~240V, L / N (L)+PE                               |
|                         | ABUS input voltage      | 380V~800V, 3Ph                                        |
|                         | Anti-PID input voltage  | 380V~800V, 3Ph+FE                                     |
|                         | Anti-PID output voltage | 0 / ±750V                                             |
|                         | AC input frequency      | 50Hz / 60Hz                                           |
| Consumption             | Self consumption        | Max. 380W                                             |
| Mechanical Parameter    | Dimensions (W / H / D)  | 670 / 760 / 200 mm (without installation accessories) |
|                         | Weight                  | 30.0 kg                                               |
|                         | Ingress protection      | IP66                                                  |
|                         | Mounting                | Wall mounted, rack mounted, ground mounted            |

\* Each 485 interface can connect up to 30 inverters or 1 environmental monitoring instrument or 1 electricity meter.

# ASW RESIDENTIAL SOLUTION

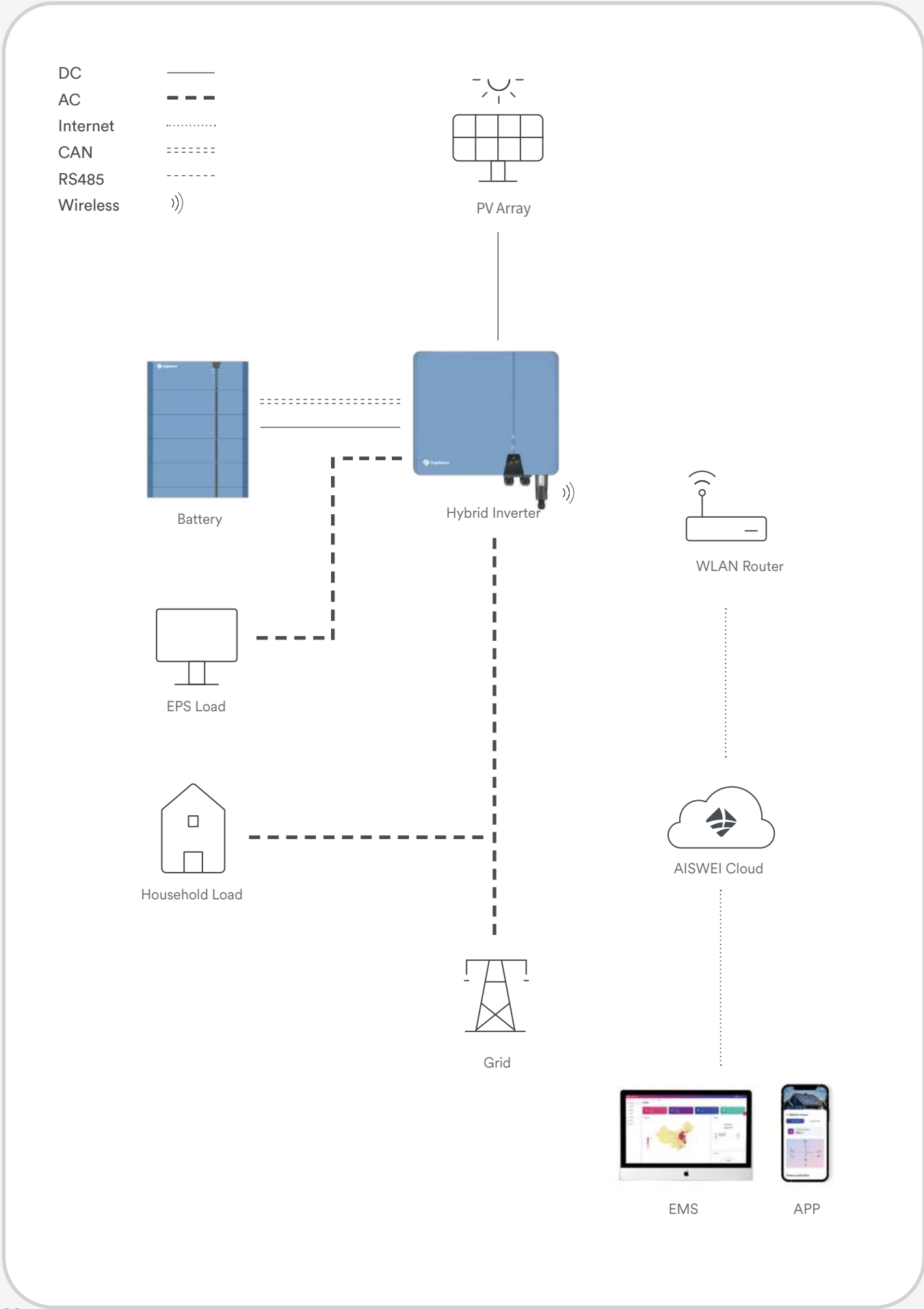


# ASW C&I SOLUTION





STORAGE SOLUTION



Internationally  
accredited laboratory



Our products are tested and certified according to strict international quality standards.

In addition to international quality test and certification of our products, our quality centre is also contributor and formulator of many international standards and the main drafting company of the China Quality Certification Center “Standards for Certification of Household Roof Solar System”.



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