# Solar for everybody

Solplanet

## Product brochure

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

Photo by Nathan Dumlao

Solplanet

# Solar for everybody

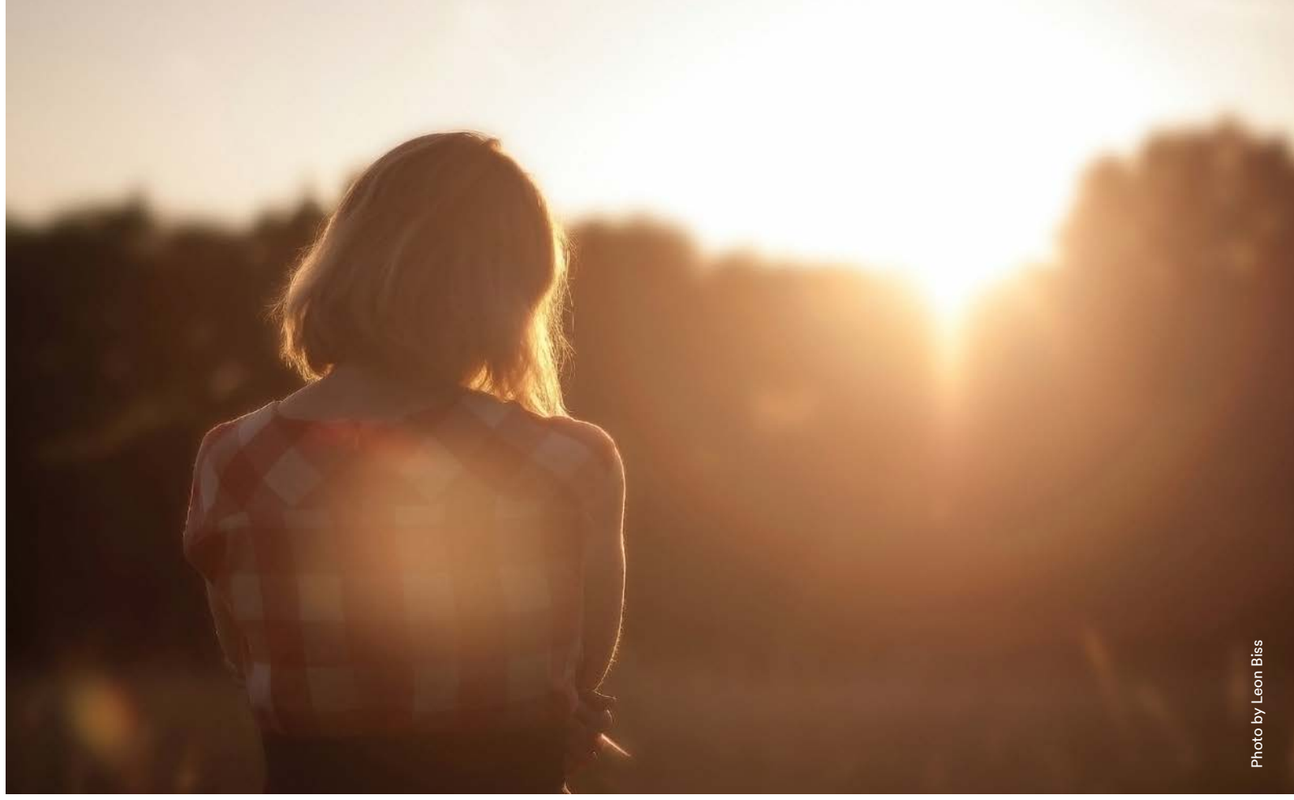
Photo by Leon Biss

## 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, reliable and user- friendly.

Solplanet photovoltaic inverters are manufactured in compliance with international high-quality standards. Our annual production capacity exceeds 20 GW. 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 Zeversolar.

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, 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 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, 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

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:


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Three Phase Inverters
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Hybrid Inverters
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Energy Storage Batteries
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Smart EV Charger
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Connect & Monitor
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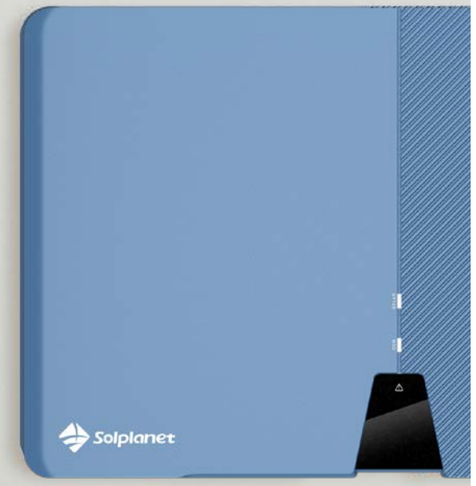
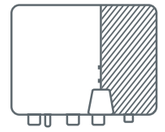
# Single phase inverters




## Perfect for home & small business applications

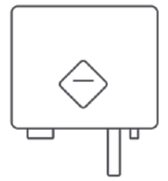
ASW S-S2 SERIES

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

Photo by Liana Mikah

Single phase inverters 600 W to 800 W

# ASW S-S2 Series


Models:
ASW600S-S2
ASW800S-S2

## Outstanding performance

- Start-up voltage as low as 35 V
- Max. 16 A input current, ideal for high power PV modules
- 250% DC/AC ratio for higher yields
- Wide MPPT voltage range from 35 to 420 V
- Supports Shadesol shadow management

## Smart and friendly

- Supports 24*7 monitoring feature
- Noise level < 20dB
- Supports self-installation and self-maintance
- Supports anti-backflow feature with smart meter interface
- Multiple accesses to monitor the plant via Solplanet apps or Cloud
- Compatible to multiple communication methods

## Easy to install

- Perfect for balcony scenarios
- Plugs directly into household sockets
- Super light weight, easier delivery and installation
- Ultra-compact dimensions, A4 paper size
- SUNCLIX contact, simplified installation
- Flexible configuration, quick set-up and commisioning via Solplanet apps

## Safe and reliable

- Integrated DC switch
- IP66 rated design for outdoor use
- High safety due to low DC voltage
- PV reverse connection alarm and insulation impedance detection
- Real-time grid and residual current monitoring, AC short-circuit protection and anti-islanding protection



## Technical Datasheet

| | | ASW600S-S2 | ASW800S-S2 |
|---|---|---|---|
| Input (DC) | Max. PV array power | 1500 Wp STC | 2000 Wp STC |
| | Max. input voltage | 500 V | |
| | MPP voltage range | 35 V to 420 V / 360 V | |
| | Full load MPP voltage range | 65 ....400 V | 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 | |
| | Feed-in phases | 1 | |
| | Harmonic distortion (THD) at rated output | < 3 % | |
| Efficiency & Protection | 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 | |
| | Night monitoring | ● | |
| | 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) | 288 / 218 / 97 mm | |
| | Weight | 3.9 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) | ● | |
| | Communication interface (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

Single phase inverters 1 to 3 kW

# 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

## 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 | | | |
| | Feed-in phases | 1 | | | |
| | Harmonic distortion (THD) at rated output | < 3 % | | | |
| Efficiency & Protection | 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 | ● | | | |
| | 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) | 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 | | | |
| | 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[1] | ● / ● / ○ / ○<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

Single phase inverters 6 to 10 kW

# 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

## 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 | 600 V | | |
| | 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 | ● | | |
| | Night monitoring | ● | | |
| | 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% | | |
| | 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[1&2] | ● / ● / ○ / ○<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

## 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 | 200-500 V | | | |
| | 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 ) | 5 A | 7.5 A | 10 A | 12.5 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 | 97.6% / 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 | ● | | | |
| | Night monitoring | ● | | | |
| | 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) | 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 | | | |
| | Max. permissible value for relative humidity (non-condensing) | 100% | | | |
| | Max. operating altitude | 4000 m | | | |
| Features | DC connection | Plug-in connector | | | |
| | AC connection | Plug-in connector | | | |
| | Mounting type | Wall-mount bracket | | | |
| | LED indicators (Status / Fault / Communication) | ● | | | |
| | Communication interface[1)] | ● / ● / O / O<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 / O 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.

Single phase inverters 3 to 6 kW

# 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

## 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 | 600 V | | | | |
| | MPP voltage range / rated input voltage | 60 V - 560 V / 360 V | | | | |
| | 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 | 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 | 15 A | 16 A | 20 A | 25 A | 30 A |
| | Adjustable power factor range | 1 / 0.8 leading ... 0.8 lagging | | | | |
| | Feed-in phases | 1 | | | | |
| | Harmonic distortion (THD) at rated output | < 3% | | | | |
| Efficiency & Protection | 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 | | | | |
| | Anti-Islanding protection | ● | | | | |
| | Night monitoring | ● | | | | |
| | 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) | 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 | | | | |
| | Max. permissible value for relative humidity (non-condensing) | 100% | | | | |
| | Max. operating altitude | 4000 m | | | | |
| Features | DC connection | Plug-in connector | | | | |
| | AC connection | Plug-in Connector | | | | |
| | Mounting type | Wall-mount bracket | | | | |
| | LED Indicators (Status / Fault / Communication) | ● | | | | |
| | Communication interface[1] | ● / ● / O / O<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 | | | | |

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

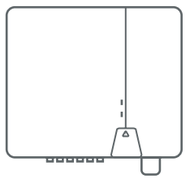
# Three phase inverters


Photo by Paweł Czerwiński

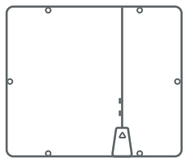
## High yield, reliable residential and commercial inverters

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



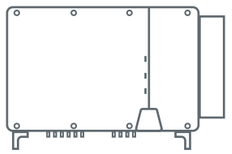
ASW LT-G3 SERIES
ASW25K / 27K / 30K / 33K / 36K / 40K-LT-G3



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

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

## 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 150 V - 1000 V
- ShadeSol shadow management



## Technical Datasheet

| | | ASW3K-LT-G2 Pro | ASW4K-LT-G2 Pro | ASW5K-LT-G2 Pro | ASW6K-LT-G2 Pro | ASW8K-LT-G2 Pro | ASW10K-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 | | | | 20 A / 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 | 4.8 A | 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 | ● | | | | | |
| | Night monitoring | ● | | | | | |
| | 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) | ● | | | | | |
| | Communication interface[1] | ● / ● / ○ / ○<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

### 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 150 V - 1000 V
- ShadeSol shadow management



## Technical Datasheet

| | | ASW 12K-LT-G2 Pro | ASW 13K-LT-G2 Pro | ASW 15K-LT-G2 Pro | ASW 17K-LT-G2 Pro | ASW 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 / 30 A | 48 A / 30 A | 48 A / 48 A | 48 A / 48 A |
| | 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 |
| Output (AC) | 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 | | | | |
| | 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 % | | | | |
| 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 | ● | | | | |
| | Arc fault circuit interrupter (AFCI) | ○ | | | | |
| | Anti-Islanding protection | ● | | | | |
| | Night monitoring | ● | | | | |
| | 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 | 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 | | | | |
| Features | DC connection | Plug-in connector | | | | |
| | AC connection | Plug-in connector | | | | |
| | Mounting type | Wall-mount bracket | | | | |
| | LED indicators (Status / Fault / Communication) | ● | | | | |
| | Communication interface[1] | ● / ● / ○ / ○<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

## 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 150 V - 1000 V
- ShadeSol shadow management



## Technical Datasheet

| | | ASW 8K-LT-G2 | ASW 10K-LT-G2 | ASW 12K-LT-G2 | ASW 15K-LT-G2 | ASW 17K-LT-G2 | ASW 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 | 26 A/26 A | 26 A / 26 A | 26 A / 26 A |
| | Max. short circuit current | 40 A / 20 A | 40 A / 20 A | 40 A / 40 A | 40 A /40 A | 40 A / 40 A | 40 A / 40 A |
| | 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 | ● / ● / O / O<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 / O 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

## Reliable

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

## User-friendly

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



| 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 | 32 A / 32 A / 32 A | | | 32 A / 32 A / 40 A | | |
| | Max. short circuit current | 48 A / 48 A / 48 A | | | 48 A / 48 A / 60 A | | |
| | 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 | 25000 W | 27000 W | 30000 W | 33000 W | 36000 W | 40000 W |
| | 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 528 V | | | | | |
| | AC grid frequency / range | 50 Hz / 45 Hz to 55 Hz<br>60 Hz / 55 Hz to 65 Hz | | | | | |
| | Max. output current | 39.9 A | 43.0 A | 47.8 A | 52.6 A | 57.4 A | 63.8 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 | 98.4% / 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 | ● | | | | | |
| | Night monitoring | ● | | | | | |
| | 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) | 543 / 520 / 235 mm | | | | | |
| | 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) | ● | | | | | |
| | Communication interface[1] | ● / ● / ○ / ○<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

Three phase inverters 30 to 50 kW

# 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

## 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 200 V - 1000 V
- ShadeSol shadow management



## Technical Datasheet

| | | ASW 30K-LT-G2 | ASW 33K-LT-G2 | ASW 36K-LT-G2 | ASW 40K-LT-G2 | ASW 45K-LT-G2 | ASW 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 % | | | | | |
| | Max. operating altitude | 3000 m | | | | | |
| Features | DC connection | Plug-in connector | | | | | |
| | AC connection | OT connector | | | | | |
| | Mounting type | Wall-mount bracket | | | | | |
| | LED indicators (Status / Fault / Communication) | ● | | | | | |
| | Communication interface | ● / ● / O / O<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 / O optional features / – not available
Data at nominal conditions. All information is subject to change.

Three phase inverters 40 to 50 kW

# 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

## 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 200 V - 1000 V
- 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 | 32 A | | |
| | Max. short circuit current | 48 A | | |
| | 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 | | |
| | 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 / 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 | | |
| | 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 | OT connector | | |
| | Mounting type | Wall-mount bracket | | |
| | LED indicators (Status / Fault / Communication) | ● | | |
| | Communication interface | ● / ● / O / O<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 / O optional features / – not available
Data at nominal conditions. All information is subject to change.

Three phase inverters 45 to 60 kW

# 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

## Reliable & Safe

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



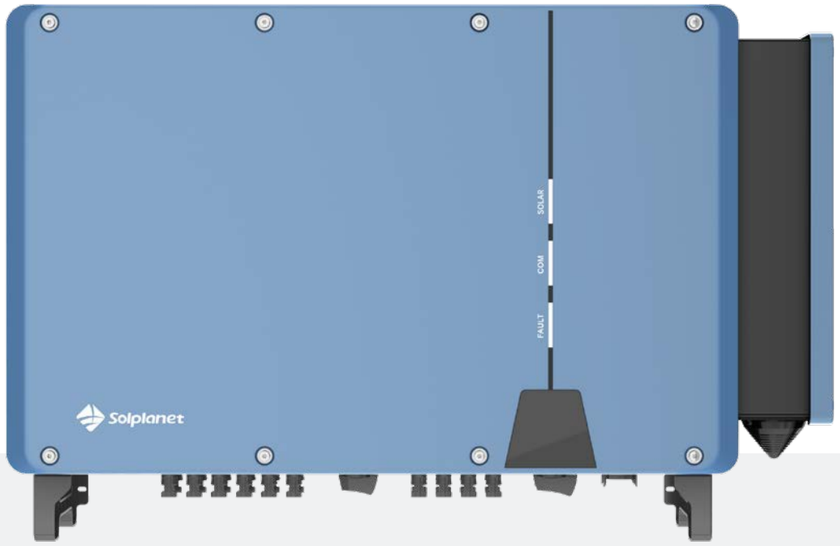
## Technical Datasheet

| | | 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 | | |
| | 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 | ● | | |
| | Arc fault circuit interrupter (AFCI) | ○ | | |
| | Anti-islanding Protection | ● | | |
| | Night monitoring | ● | | |
| | 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 | ● | | |
| General data | 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 | | |
| | 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 | Plug-in connector | | |
| | AC connection | OT/DT 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, IEC 62109-1/2,<br>IEC 61727,IEC 62116,IEC61683,G98/G99,VDE4110,VED4105,EN50549-1/2 | | |

● Standard features / ○ optional features / – not available

Three phase inverters 75 to 110 kW

# 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
- 32 A 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



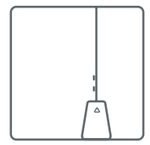
## Technical Datasheet

| | | 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 | 200 V - 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 | | | |
| | Harmonic distortion (THD) at rated output | < 3% | | | |
| Efficiency & Protection | 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) | O | | | |
| | Anti-islanding Protection | ● | | | |
| | Night monitoring | ● | | | |
| | 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 | | | |
| | EMC | CLASS B | | | |
| Features | DC Connector | DC Plug-in connector | | | |
| | AC Connector | OT/DT Terminal (Max.240mm2) | | | |
| | LED indicators (Status / Fault / Communication) | ● | | | |
| | Communication interface | ● / ● / O / O<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 / O optional
Data at nominal conditions. All information is subject to change.

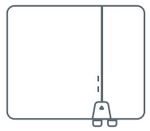
# Hybrid Inverters

## 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

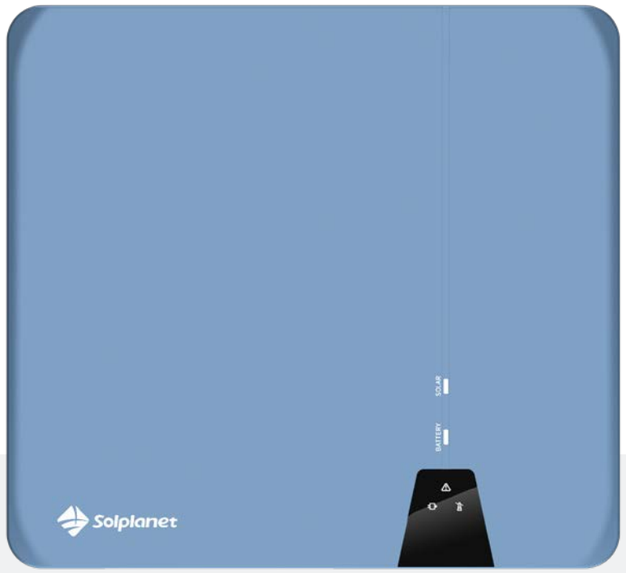
ASW08k / 10k / 12kH-T3
ASW08k / 10k / 12kH-T3-O

ASW A-S SERIES

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

## 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

| | | ASW 3000H-S2 | ASW 3680H-S2 | ASW 4000H-S2 | ASW 5000H-S2 | ASW 6000H-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 / 100 A | | | | |
| | Battery type | LiFePO4 | | | | |
| | Compatible Battery | Aiswei Ai-LB series[3] | | | | |
| AC output | 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 / Max. apparent power | 3000 VA | 3680 VA | 4000 VA | 5000 VA[1] | 6000 VA |
| | Rated grid output Current (@230 V) | 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. 230 V | | | | |
| | Rated apparent power / 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 / Max. output apparent power | 5000 VA | | | | |
| | Peak output apparent power | 7500 VA, 10s | | | | |
| | Rated Current (@230 V) / Max. output current | 21.7 A | | | | |
| | Max. switch time | ≤ 10 ms | | | | |
| | Output THDi (@ Linear load) | <3% | | | | |
| Effi-ciency | MPPT efficiency | 99.90% | | | | |
| | Euro efficiency / Max. efficiency | 97% / 97.6% | | | | |
| | Max. battery to load efficiency | 94.70% | | | | |
| Safety protection | 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 | 25.1 kg | | | | |
| | 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=4600 VA,Pn=4600W

[2] For AS/NZS4777.2,Iac max=21.7 A

[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

## Reliable

- Up to 150 % PV array oversizing for higher yields
- 100% unbalanced three phase AC output during EPS mode
- 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

| | | ASW 05kH-T2 | ASW 06kH-T2 | ASW 08kH-T2 | ASW 10kH-T2 | ASW 12kH-T2 |
|---|---|---|---|---|---|---|
| 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* | | |
| | 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 | 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-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

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

## Technical Datasheet

| | | ASW 05kH-T2-O | | ASW 06kH-T2-O | | ASW 08kH-T2-O | | ASW 10kH-T2-O | | ASW 12kH-T2-O | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 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* | | | | | |
| | 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 (@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-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 / O optional features / - not available

* The latest optimised platform design supports MPP voltage range at 150 V-950 V, 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

### Reliable

- Up to 150 % PV array oversizing for higher yields
- 100% unbalanced three phase AC output during EPS mode
- 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

| | | ASW08kH-T3 | | ASW10kH-T3 | | ASW12kH-T3 | |
|---|---|---|---|---|---|---|---|
| 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* | | | | | |
| | 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 | 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 / 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 % | | | | | |
| Effi-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
* The latest optimised platform design supports MPP voltage range at 150 V-950 V, pending subsequent certificate updates..

## Technical Datasheet

| | | ASW08kH-T3-O | | ASW10kH-T3-O | | ASW12kH-T3-O | |
|---|---|---|---|---|---|---|---|
| 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* | | | | | |
| | 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 | 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 | 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-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
* The latest optimised platform design supports MPP voltage range at 150 V-950 V, pending subsequent certificate updates.

Single phase All-in-one hybrid energy storage system 600 to 1000 W

# ASW A-S Series

Models:

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

## Easy-to-install

- Easy to install for everybody
- Power into any single-phase socket
- Power from all same-phase sockets

## Safe & Reliable

- Safe & Reliable low voltage system
- 10 years warranty + option for more years
- All-around protection with Battery Management System (BMS)

## User-friendly

- User-friendly LCD display for settings & status
- Mobile App for remote setting & monitoring
- Low working temperature down to -15°C



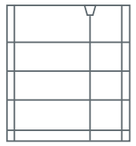
## Technical Datasheet

| | | ASW0600/ 1250 A-S | ASW0800/ 1250 A-S | ASW1000/ 1250 A-S | ASW0600/ 2500 A-S | ASW0800/ 2500 A-S | ASW1000/ 2500 A-S |
|---|---|---|---|---|---|---|---|
| PV input | Max. PV array power | 1600 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 | 26 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 | Nominal AC voltage | 220 V / 230 V / 240 V | | | | | |
| | 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(@230 V) | 2.6 A | 3.5 A | 4.4 A | 2.6 A | 3.5 A | 4.4 A |
| | Harmonics THDi (@ Nominal power) | < 3 % (of nominal power) | | | | | |
| AC input | Rated grid voltage | 220 V / 230 V / 240 V | | | | | |
| | Rated grid frequency | 50 Hz / 60 Hz | | | | | |
| | Max. input power from grid | 1000 W | | | | | |
| | Max. input current from grid | 4.4 A | | | | | |
| 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 / 385 / 220 mm | | | | | |
| | Weight | 24 kg | | | 36 kg | | |
| | Operating temperature range | -15 °C ... +45 °C | | | | | |
| | Cooling concept | Fan Cooling | | | | | |
| | Degree of protection (as per IEC 60529) | IP54 | | | | | |
| | 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 | | | | | |
| | 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 075 A / 100 A / 125 A / 150 A / 175 A / 200 A

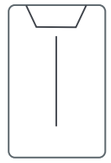
Ai-HB SERIES

Ai-HB 2.56LG

LOW VOLTAGE BATTERY

Ai-LB SERIES

Ai-LB 5K / 10K

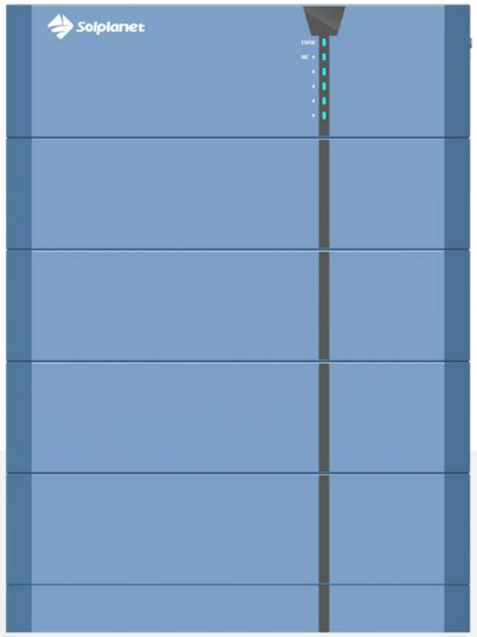


AI-LB Pro SERIES

Ai-LB 5K / 10K Pro

High Voltage Battery 7.5 to 20 kWh

# Ai-HB G2 Series




Models:

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

## 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

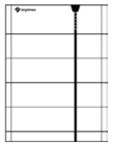
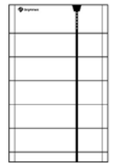
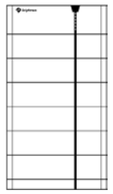
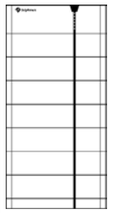
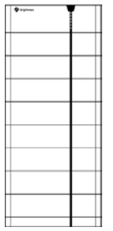
- IP65 rated design
- Cell-level monitoring
- LFP safe technology
- All-round BMS protection

## User-friendly

- Stackable and Expandable up to 20.48 kWh (supporting 8 modules per unit)
- Multi-use applications: self-consumption, time of use tariffs, customisation
- Online monitoring via Solplanet apps



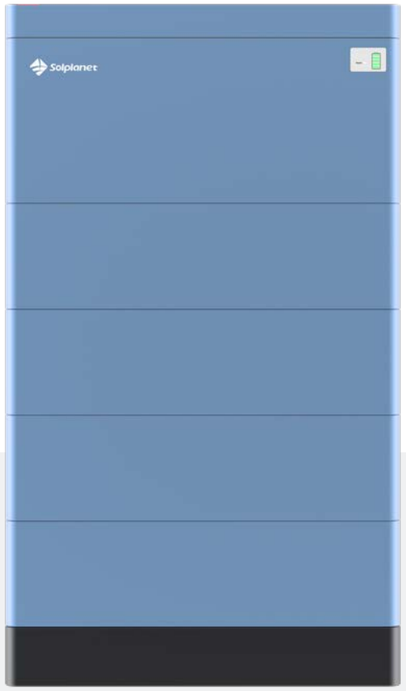
## Technical Datasheet

| | | Ai-HB 075 A | Ai-HB 100 A | Ai-HB 125 A | Ai-HB 150 A | Ai-HB 175 A | Ai-HB 200 A |
|---|---|---|---|---|---|---|---|
| System Data | Battery designation |  |  |  |  |  |  |
| | Battery module | HB051050 A | | | | | |
| | Cell type | LiFePO4 | | | | | |
| | Module quantity | 3 | 4 | 5 | 6 | 7 | 8 |
| | Rated capacity | 50 Ah | | | | | |
| | Nominal energy[1] | 7.68 kWh | 10.24 kWh | 12.8 kWh | 15.36 kWh | 17.92 kWh | 20.48 kWh |
| | Usable energy[2] | 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 | 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 | | | | | |
| | Max.discharging current | 30 A | | | | | |
| | Rated charging / discharging power | 3.84 kW | 5.12 kW | 6.40 kW | 7.68 kW | 8.86 kW | 10.24 kW |
| | Max.charging power | 3.84 kW | 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 |
| General Data | Dimensions (W / D / H) mm | 540 / 390 / 600 | 540 / 390 / 730 | 540 / 390 / 860 | 540 / 390 / 990 | 540 / 390 / 1120 | 540 / 390 / 1250 |
| | 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[3] | 6000 times | | | | | |
| | Round-trip efficiency | ≥95% | | | | | |

[1] Nominal energy is defined under the following conditions: cell voltage 2.5~3.65 V, 0.5C charge & discharge at +25°C.
[2] Usable energy is defined under the following conditions: 90% DOD, 0.5C charge & discharge at +25°C. 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: 70 % DOD, 0.5C charge & discharge at +25°C.

High Voltage Battery 7.5 to 25 kWh

# Ai-HB Series



Model:
Ai-HB 2.56LG

## Safety

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

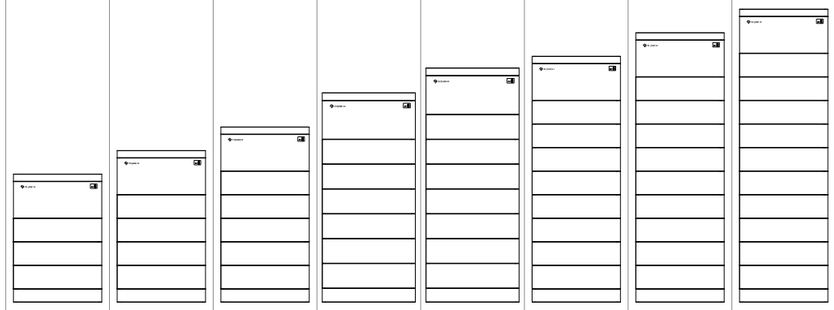
## Reliable

- 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 | 50 Ah | | | | | | |
| | Nominal energy[1] | 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[2] | 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 | 134.4 V ~ 168.4 V | 179.2 V ~ 224.64 V | 224 V ~ 280.8 V | 268.8 V ~ 336.96 V | 313.6 V ~ 393.12 V | 358.4 V ~ 449.28 V | 403.2 V ~ 505.44 V | 448 V ~ 561.6 V |
| | Nominal charging / discharging current | 25 A | | | | | | |
| | Max. charging / discharging current | 50 A | | | | | | |
| | Rated power | 3.84 kW | 5.12 kW | 6.4 kW | 7.68 kW | 8.86 kW | 10.24 kW | 11.52 kW | 12.8 kW |
| | Max. charging / 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 |
| General Data | Dimensions (W/D/H) mm | 600/210/820 | 600/210/980 | 600/210/1140 | 600/210/1300 | 600/210/1460 | 600/210/1620 | 600/210/1780 | 600/210/1940 |
| | 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 | | | | | | |
| | 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 | | | | | | |
| | 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[3] | 6000 times | | | | | | |
| | Round-trip efficiency | ≥95% | | | | | | |

[1] Nominal energy is defined under the following conditions: cell voltage 2.0~3.65 V, 1C charge & discharge at +25°C

[2] Usable energy is defined under the following conditions: 90% DOD, 0.5C charge & discharge at +25°C. 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: 80 % DOD, 0.2C charge & discharge at +25°C.

Low Voltage Battery 5 to 10 kWh

# Ai-LB Series





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

## Safety

- LFP safe technology
- All-round BMS protection

## 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 | LB51100 A | |
| | Module number | 1 | 2 |
| | Rated capacity | 100 Ah | 200 Ah |
| | Nominal energy[1] | 5.12 kWh | 10.24 kWh |
| | Usable energy[2] | 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 |
| | Max. charging / discharging power | 2.56 kW | 5.12 kW |
| General Data | 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 stand | Floor stand / Wall Mount |
| | 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[3] | 6000 times | |
| | Round-trip efficiency | ≥95% | |

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

Low Voltage Battery 5 to 10 kWh

# 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 and 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



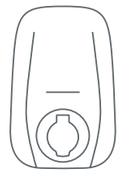
## Technical Datasheet

| | | Ai-LB 5K Pro | Ai-LB 10K Pro |
|---|---|---|---|
| System Data | Cell type | LiFePO4 | |
| | Rated capacity | 100 Ah | 200 Ah |
| | Nominal energy[1] | 5.12 kWh | 10.24 kWh |
| | Usable energy[2] | 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 | 0.6 C,60 A / 1 C,100 A | 0.6 C,120 A / 0.6 C,120 A |
| | 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[3] | 6000 times | |
| | Round-trip efficiency | ≥ 95% | |

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

# 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

AC EV Charger 7.4 to 22 kW

# 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

| | | SOL7.4H-WP | SOL7.4H-WS/WSS | SOL11H-WP | SOL11H-WS/WSS | SOL22H-WP | SOL22H-WS/WSS |
|---|---|---|---|---|---|---|---|
| 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[1,2] | Type 2 | Type 2 socket[1,2] | Type 2 | Type 2 socket[1,2] |
| | 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 | | | | | |
| | Built-in 4G | ○ | | | | | |
| | 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


Photo by Artem Podrez

## 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

Smart cloud-based monitoring system

# 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:

Download on the App Store

Get it on Google Play

# 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 | / | LAN 10 / 100 Mbps |
| | | WLAN | 2.4GHz 802.11 b/g/n | |
| | South Communication | | RS 485 (USB Type A) | |
| Interac-tion | 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.) |
| Elec-trical | DC Power Supply | | 7 ~ 9 V | 5 ~ 12 V |
| | Power Consumption | | Typical 2 W, Max. 5 W | |
| Mechanical | Dimensions (W / H / 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**

- 4G communication

**Simple**

- Plug and play design, easy-to-install

**Reliable**

- 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 ~ 12 V |
| | Power Consumption | Typical 6.5 W, Max. 10 W |
| Mechanical | Dimensions ((W / H / D)) | 50 / 34 / 154 mm |
| | 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**

- Smart zero export control design

**Simple**

- Easy to install on site

**Reliable**

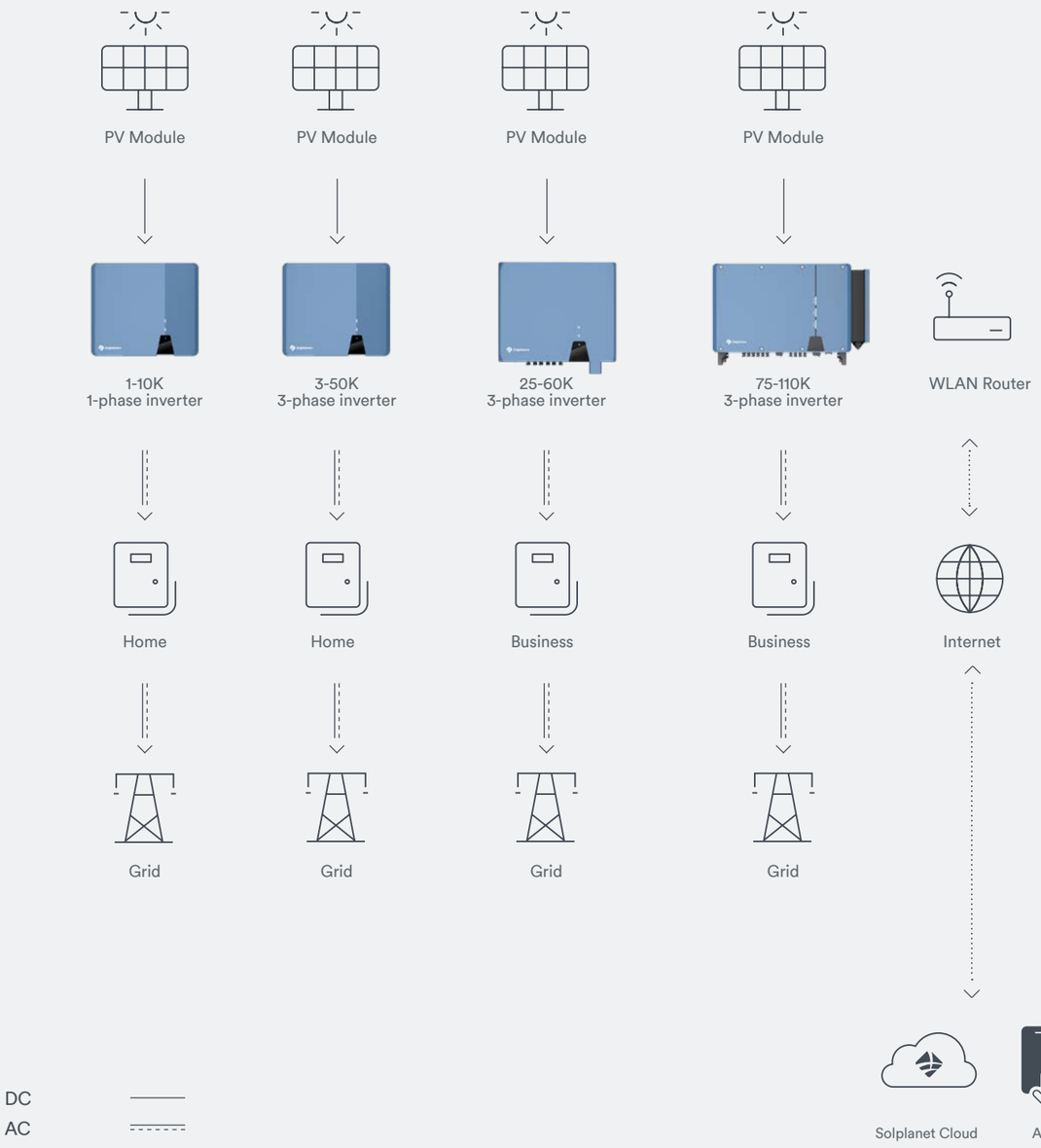
- Adapt to various application scenarios

## Technical Datasheet

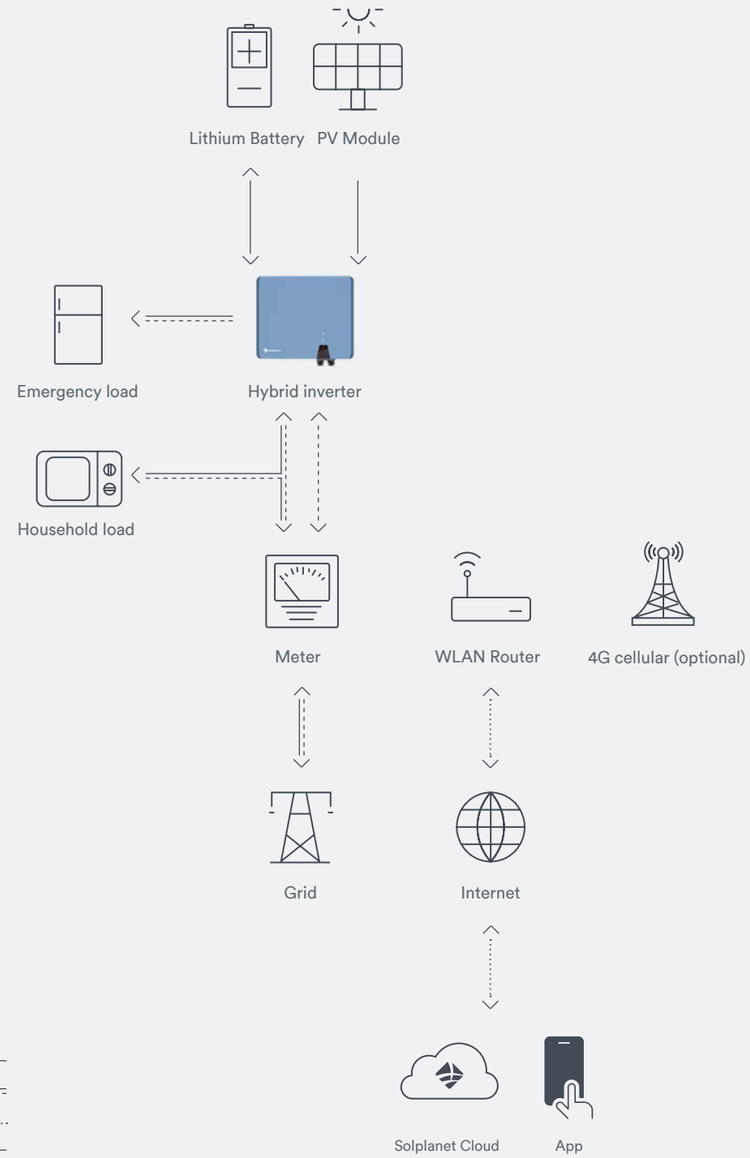
| | | | Ai-Logger 1000 |
|---|---|---|---|
| Device Manage-ment | Max. Number of Manageable Devices* | | 80 |
| Commu-nication Interface | North Communication | LAN | LAN x 1, 10 / 100 / 1000 Mbps |
| | South Communication | RS485 | COM x 3, 1000 m |
| | Others | Digital / Analog Input / Output | DI x 4, DO x 2 |
| Interaction | LED | | LED Indicator x 4 – COM 1~3, North communication |
| | WEB | | Embedded Web |
| | USB | | USB 2.0 x 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.) |
| Elec-trical | DC Power Supply | | 12 V ~ 24 V / 2 A |
| | Power Consumption | | Typical 8 W, Max. 15 W |
| Mechanical | Dimensions ((W / H / D)) | | 240 / 126 / 42 mm |
| | 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.

# Wi-Fi stick connection & monitor set up for single and three phase inverters




# Wi-Fi connection & monitor set up for hybrid inverters



# 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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Scan QR code and contact your local team



Photo by Raja Tilkian