Solplanet

Solar for everybody

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, safe & reliable and user- friendly.

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

You can depend on Solplanet

Solplanet is a brand of AISWEI, which is formerly known as SMA's Chinese subsidiary and has successfully been manufacturing high-quality and reliable products for renowned brands like SMA and 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, safe & reliable and user-friendly. We offer a variety of quality products with industry leading warranties that you can depend on: single phase inverters, three phase inverters and connect & monitoring products. In addition we also offer our new hybrid inverters.

Easy-to-install
Safe & Reliable
User-friendly

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



Easy-to-install

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

Safe & reliable

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

User-friendly

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

Our product range:

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

Single Phase Inverters
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Three Phase Inverters
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Hybrid Inverters
Page 40

Energy Storage Batteries
Page 60

Smart EV Charger
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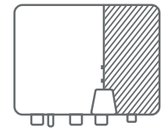
Connect & Monitor
Page 80

Single phase inverters

Perfect for home & small business applications

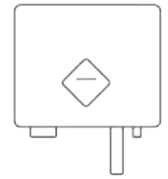
ASW S-S2 SERIES

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

Easy-to-install

- Suitable for PV balcony systems
- Quick and easy to install with standard tools
- Smart setup, commissioning and monitoring via Solplanet App
- A4 size, compact and super light weight at 3.9 kg

Safe & reliable

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

User-friendly

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

Technical Datasheet

		ASW600S-S2	ASW800S-S2
Input (DC)	Max. PV array power	1500 Wp STC	2000 Wp STC
	Max. input voltage	500V	
	MPP voltage range	35V to 420 V / 360 V	
	Full load MPP voltage range	65 ....400V	65 ....400 V
	Min. input voltage	30 V	
	Initial. feed in voltage	35 V	
	Max. operating input current	16 A	
	Max. short circuit current	20 A	
	No. of independent MPPT inputs / strings per MPPT input	1 / 1	
Output (AC)	Rated active power	600 W	800 W
	Rated apparent power	600 VA	800 VA
	Max. apparent power	600 VA	800 VA
	AC nominal voltage	230 V	
	AC voltage range	180 V to 260 V	
	AC grid frequency / range	50 Hz / 45 Hz to 55 Hz	
	Rated output current (A)	2.6 A	3.5 A
	Max. output current (A)	2.6 A	3.5 A
	Adjustable power factor range	0.8 leading to 0.8 lagging	
	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	
	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	3.9kg	
	Operating temperature range	-25 °C...+60 °C	
	Self-consumption (at night)	< 1 W	
	Topology	Non-isolated	
	Cooling concept	Natural convection	
	Degree of protection (according to IEC 60529)	IP66	
	Climatic category (according to IEC 60721-3-4)	4K4H	
	Max. permissible value for relative humidity (non-condensing)	100%	
	Max. operating altitude	3000 m	
Features	DC connection	Plug-in connector	
	AC connection	Plug-in connector	
	Mounting type	Wall-mount bracket	
	LED indicators (Status / Fault / Communication)	●	
	24/7 monitoring	●	
	Communication 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 and easy-to-install with standard tools
- Smart setup, commissioning and monitoring via Solplanet App
- Compact wall mount design

Safe & reliable

- Internationally accredited standards
- Integrated DC switch
- IP65 rated design for indoor and outdoor use

User-friendly

- User friendly app interface
- Distinguishable connection interfaces
- ShadeSol - improved generation under non-ideal conditions

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 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]	●/●/●/○ (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 and easy-to-install with standard tools
- Smart setup, commissioning and monitoring via Solplanet App
- Compact wall mount design

Safe & reliable

- Internationally accredited standards
- Integrated DC switch
- IP66 rated design for indoor and outdoor use

User-friendly

- 16A input current, compatible with bifacial and large area PV modules
- 3 MPPTs for flexible PV array design
- ShadeSol - improved generation under non-ideal conditions

Technical Datasheet

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

Safe & reliable

- Internationally accredited standards
- Integrated DC switch
- IP66 rated design for indoor and outdoor use

User-friendly

- 16 A input current, compatible with bifacial and large area PV modules
- Optional AC Power Supply
- ShadeSol - improved generation under non-ideal conditions
- Supports zero export applications

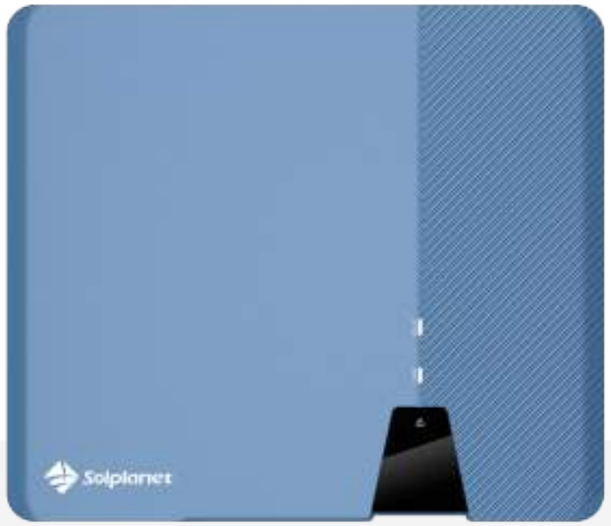
Technical Datasheet

		ASW1000-S-G2	ASW1500-S-G2	ASW2000-S-G2	ASW2500-S-G2
Input (DC)	Max. PV array power	1500 Wp STC	2250 Wp STC	3000 Wp STC	3750 Wp STC
	Max. input voltage	600 V	600 V	600 V	600 V
	MPP voltage range	60 V to 560 V / 360 V			
	Full load MPP voltage range	200-500V			
	Min. input voltage	60 V			
	Initial. feed in voltage	100 V			
	Max. operating input current	16 A			
	Max. short circuit current	24 A			
	No. of independent MPPT inputs / strings per MPPT input	1 / 1			
Output (AC)	Rated active power	1000 W	1500 W	2000 W	2500 W
	Rated apparent power	1000 VA	1500 VA	2000 VA	2500 VA
	Max. apparent power	1000 VA	1500 VA	2000 VA	2500 VA
	AC nominal voltage	220 V / 230 V / 240 V			
	AC voltage range	180 V to 295 V			
	AC grid frequency / range	50 Hz / 45 Hz to 55 Hz 60 Hz / 55 Hz to 65 Hz			
	Max. output current (A)	5A	7.5 A	10 A	12.5 A
	Adjustable power factor range	0.8 leading to 0.8 lagging			
	Feed-in phases	1			
	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	●			
	Arc fault circuit interrupter (AFCI)	○			
	Anti-Islanding protection	●			
	Surge protection	● / Type II			
	Protection class (according to IEC 62109-1) / overvoltage category (according to IEC 62109-1)	I / AC: III; DC: II			
General data	Dimensions (W / H / D)	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)	●			
	24/7 monitoring	●			
	Communication interface[1)]	●/●/●/○ (RS485 /Wi-Fi/ LAN /4G)			
	Country of manufacture	China			
	Certificates and approvals(more available on request)	IEC 62109-1/2, EN50549-1, C10/C11,VDE-AR-N 4105			

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

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 and easy-to-install with standard tools
- Smart setup, commissioning and monitoring via Solplanet App
- Compact wall mount design

Safe & reliable

- Internationally accredited standards
- Integrated DC switch
- IP66 rated design for indoor and outdoor use

User-friendly

- 16 A input current, compatible with bifacial and large area PV modules
- Optional AC Power Supply
- ShadeSol - improved generation under non-ideal conditions
- Supports zero export applications
- 2 MPPTs for flexible PV array design

Technical Datasheet

		ASW3000-S-G2	ASW3680-S-G2	ASW4000-S-G2	ASW5000-S-G2	ASW6000-S-G2
Input (DC)	Max. PV array power	4500 Wp STC	5520 Wp STC	6000 Wp STC	7500 Wp STC	9000 Wp STC
	Max. input voltage	600V				
	MPP voltage range / rated input voltage	60V-560V/360V				
	Min. input voltage	60V				
	Initial. feed in voltage	100V				
	Max. operating input current	16A				
	Max. short circuit current	24A				
	No. of independent MPPT inputs / strings per MPPT input	2/1				
Output (AC)	Rated active power	3000 W	3680 W	4000 W	5000 W	6000 W
	Rated apparent power	3000 VA	3680 VA	4000 VA	5000 VA	6000 VA
	Max. apparent power	3000 VA	3680 VA	4000 VA	5000 VA	6000 VA
	AC nominal voltage	220 V / 230 V / 240 V				
	AC voltage range	180 V to 295 V				
	AC grid frequency / range	50 Hz / 45 Hz to 55 Hz 60 Hz / 55 Hz to 65 Hz				
	Max. output current	15A	16A	20A	25A	30A
	Adjustable power factor range	1 / 0.8 leading ... 0.8 lagging				
	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				
	Arc fault circuit interrupter (AFCI)	O				
	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)	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)	●				
	24/7 monitoring	●				
	Communication interface[1]	●/●/●/O (RS485 /Wi-Fi/ LAN /4G)				
	Country of manufacture	China				
	Certificates and approvals(more available on request)	AS/NZS 4777.2,IEC 62109-1/2, IEC 61727, IEC 62116, NB/T32004				

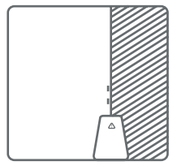
● standard features / O optional features / - not available
Data at nominal conditions. All information is subject to change.
1) Zero export installations supported with 2-pin RS485 for connection to approved smart meters

Three phase inverters



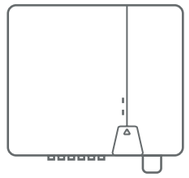
Photo by Paweł Czerwiński

High yield, reliable residential and commercial inverters

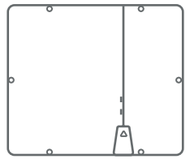


ASW LT-G2 Pro SERIES
ASW3K / 4K / 5K / 6K / 8K / 10K-LT-G2 Pro
ASW12K / 13K / 15K / 17K / 20K-LT-G2 Pro

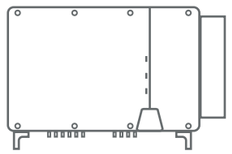
ASW LT-G2 SERIES
ASW8K / 10K / 12K / 15K / 17K/ 20K-LT-G2



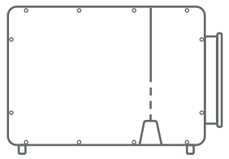
ASW LT-G3 SERIES
ASW25K / 27K / 30K / 33K /
36K / 40K-LT-G3



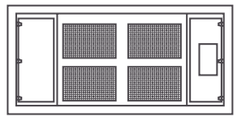
ASW LT-G3 Series
ASW45K / 50K / 60K-LT-G3



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



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



ASW MT SERIES Transformer Station
ASW3000K / 6000K / 9000K-MT

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 and easy-to-install with standard tools
- Smart setup, commissioning and monitoring via Solplanet App
- Compact wall mount design

Safe & reliable

- Internationally accredited standards
- 150 % PV array oversizing for higher yields
- IP66 rated design for indoor and outdoor use

User-friendly

- Max.20 A input current, ideal for bifacial and large area PV modules
- Wide MPP voltage range 150V-1000V
- ShadeSol - improved generation under non-ideal conditions

Technical Datasheet

		ASW 3K-LT-G2 Pro	ASW 4K-LT-G2 Pro	ASW 5K-LT-G2 Pro	ASW 6K-LT-G2 Pro	ASW 8K-LT-G2 Pro	ASW 10K-LT-G2 Pro
Input (DC)	Max. PV array power	4500 Wp STC	6000 Wp STC	7500 Wp STC	9000 Wp STC	12000 WpSTC	15000 Wp STC
	Max. input voltage	1100 V					
	MPP voltage range / rated input voltage	150 V to 1000 V / 630 V					
	Min. input voltage	125 V					
	Initial. feed-in voltage	180 V					
	Max. operating input current	16 A / 16 A				20A / 16 A	
	Max. short circuit current	25 A / 25 A				30 A / 25 A	
	No. of independent MPPT inputs / strings per MPPT input	2 / A :1 ; B : 1					
Output (AC)	Rated active power	3000 W	4000 W	5000 W	6000 W	8000 W	10000 W
	Rated apparent power	3000 VA	4000 VA	5000 VA	6000 VA	8000 VA	10000 VA
	Max. apparent power	3000 VA	4000 VA	5000 VA	6000 VA	8000 VA	10000 VA
	AC nominal voltage	220 V / 380 V 230 V / 400 V 240 V / 415 V					
	AC voltage range	160 V to 300 V					
	AC grid frequency / range	50 Hz / 45 Hz to 55 Hz 60 Hz / 55 Hz to 65 Hz					
	Max. output current	4.8A	6.4 A	8.0 A	9.6 A	12.8 A	16 A
	Adjustable power factor range	0.8 leading to 0.8 lagging					
	Feed-in phases	3 / 3-N-PE					
	Harmonic distortion (THD) at rated output	< 3%					
Efficiency & Protection	Max. efficiency / European efficiency	98.3 % / 97.9 %				98.6% / 98.2 %	
	DC Switch	●					
	Ground fault monitoring / grid monitoring	● / ●					
	DC reverse polarity protection / AC short circuit protection	● / ●					
	All-pole-sensitive residual-current monitoring unit	●					
	Arc fault circuit interrupter (AFCI)	O					
	Anti-Islanding protection	●					
	Surge protection	● / Type II					
	Protection class (according to IEC 62109-1) / overvoltage category (according to IEC 62109-1)	I / AC : III ; DC : II					
General data	Dimensions (W / H / D)	503 / 435 / 183 mm					
	Weight	16 kg					
	Operating temperature range	-25°C ... +60°C					
	Self-consumption (at night)	< 1 W					
	Topology	Non-isolated					
	Cooling concept	Natural Convection					
	Degree of protection (according to IEC 60529)	IP66					
	Climatic category (according to IEC 60721-3-4)	4K4H					
	Max. permissible value for relative humidity (non-condensing)	100 %					
	Max. operating altitude	3000 m					
Features	DC connection	Plug-in connector					
	AC connection	Plug-in connector					
	Mounting type	Wall-mount bracket					
	LED indicators (Status / Fault / Communication)	●					
	24/7 monitoring	●					
	Communication interface[1]	●/●/●/O (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 / O 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 and easy-to-install with standard tools
- Smart setup, commissioning and monitoring via Solplanet App
- Compact wall mount design

Safe & reliable

- Internationally accredited standards
- 150 % PV array oversizing for higher yields
- IP66 rated design for indoor and outdoor use

User-friendly

- 20 A input current, ideal for bifacial and large area PV modules
- Wide MPP voltage range 150V-1000V
- ShadeSol - improved generation under non-ideal conditions

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 / 30A	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 230 V / 400 V 240 V / 415 V				
	AC voltage range	160 V to 300 V				
	AC grid frequency / range	50 Hz / 45 Hz to 55 Hz 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	●				
	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)	●				
	24/7 monitoring	●				
	Communication interface[1)]	●/●/●/○ (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 and easy-to-install with standard tools
- Smart setup, commissioning and monitoring via Solplanet App
- Compact wall mount design

Safe & reliable

- Internationally accredited standards
- 150 % PV array oversizing for higher yields
- IP66 rated design for indoor and outdoor use

User-friendly

- 13 A input current, ideal for bifacial and large area PV modules
- Wide MPP voltage range 150V-1000V
- ShadeSol - improved generation under non-ideal conditions

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	26A/26A	26A/26A	26A/26A
	Max. short circuit current	40 A / 20 A	40 A / 20 A	40 A / 40 A	40A /40 A	40A/40A	40A/40A
	No. of independent MPPT inputs /strings per MPPT input	2 / A:1;B:1	2 / A:1;B:1	2 / A:2;B:1	2/A:2;B:1	2 / A:2;B:2	2 / A:2;B:2
Output (AC)	Rated active power	8000 W	10000 W	12000 W	15000 W	17000 W	20000 W
	Rated apparent power	8000 VA	10000 VA	12000 VA	15000 VA	17000 VA	20000 VA
	Max. apparent power	8000 VA	10000 VA	12000 VA	15000 VA	17000 VA	20000 VA
	AC nominal voltage	220 V / 380 V 230 V / 400 V 240 V / 415 V					
	AC voltage range	160 V to 300 V					
	AC grid frequency / range	50 Hz / 45 Hz to 55 Hz 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 (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 and easy-to-install with standard tools
- Smart setup, commissioning and monitoring via Solplanet App
- Compact wall mount design

Safe & reliable

- Internationally accredited standards
- 150 % PV array oversizing for higher yields
- IP66 rated design for indoor and 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 180V-1000V
- ShadeSol - improved generation under non-ideal conditions

Technical Datasheet

		ASW 25K-LT-G3	ASW 27K-LT-G3	ASW 30K-LT-G3	ASW 33K-LT-G3	ASW 36K-LT-G3	ASW 40K-LT-G3
Input (DC)	Max. PV array power	37500 Wp STC	40500 Wp STC	45000 Wp STC	49500 Wp STC	54000 Wp STC	60000 Wp STC
	Max. input voltage	1100 V					
	MPP voltage range / rated input voltage	180 V - 1000 V / 630 V					
	Min. input voltage	160 V					
	Initial. feed-in voltage	200 V					
	Max. operating input current	32A / 32 A /32A			32A / 32 A /40A		
	Max. short circuit current	48 A / 48A /48A			48 A / 48A /60A		
	No. of independent MPPT inputs / strings per MPPT input	3 / A:2;B:2;C:2			3 / A:2;B:2;C:2		
Output (AC)	Rated active power	25000W	27000W	30000W	33000W	36000W	40000W
	Rated apparent power	25000 VA	27000 VA	30000 VA	33000 VA	36000 VA	40000 VA
	Max. apparent power	25000 VA	27000 VA	30000 VA	33000 VA	36000 VA	40000 VA
	AC nominal voltage	220 V / 380 V 230 V / 400 V 240 V / 415 V					
	AC voltage range	180 V to 305 V / 312 V to 528V					
	AC grid frequency / range	50 Hz / 45 Hz to 55 Hz 60 Hz / 55 Hz to 65 Hz					
	Max. output current	39.9A	43.0A	47.8A	52.6A	57.4A	63.8A
	Adjustable power factor range	0.8 leading to 0.8 lagging					
	Feed-in phases	3 / 3-N-PE					
	Harmonic distortion (THD) at rated output	< 3%					
Efficiency & Protection	Max. efficiency / European efficiency	98.4% / 98.2%					
	DC Switch	●					
	Ground fault monitoring / grid monitoring	● / ●					
	DC reverse polarity protection / AC short circuit protection	● / ●					
	All-pole-sensitive residual-current monitoring unit	●					
	Arc fault circuit interrupter (AFCI)	O					
	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)	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)	●					
	24/7 monitoring	●					
	Communication interface[1]	●/●/●/O (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 / O optional features / – not available
1- Zero export installations supported with 2-pin RS485 for connection to approved smart meters

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 for reliable tool-free DC connection
- Compact wall mount design
- Fuse free design, lower BOS cost
- Smart setup, commissioning and monitoring via Solplanet App

Higher Yields

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

Safe & reliable

- Type II AC & DC surge protection
- Integrated DC switches
- IP66 rated design for indoor and outdoor use

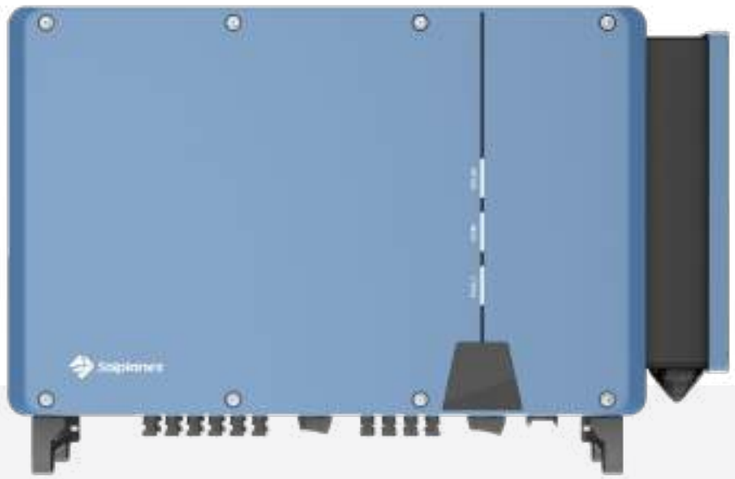
Technical Datasheet

		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 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	●		
	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)	●		
	24/7 moitoring	●		
	Communication interface	●/●/●/○ (RS485 /Wi-Fi/ LAN /4G)		
	Country of manufacture	China		
	Certificates and approvals (more available on request)	CE, IEC 62109-1/2, IEC 61727,IEC 62116,IEC61683,G98/G99,VDE4110,VED4105,EN50549-1/2		

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

Three phase inverters 75 to 110 kW

ASW LT Series



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

Safe & reliable

- Type II AC & DC surge protection
- IP66 rated design for indoor and outdoor use
- Fuse free design, lower BOS cost

Higher Yields

- ShadeSol - improved generation under non-ideal conditions
- 32A input current each MPPT, ideal for bifacial and large area PV modules
- 10 MPPTs for flexible PV array design for higher yields.

User-friendly

- 24/7 monitoring
- Smart setup, commissioning and monitoring via Solplanet App
- String-level management

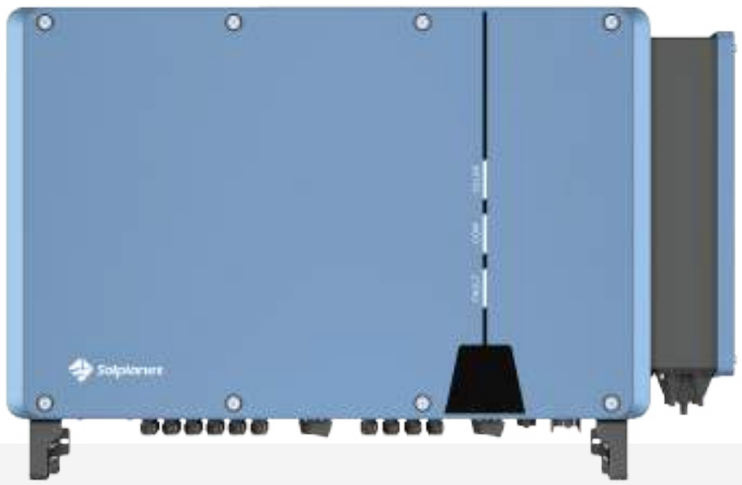
Technical Datasheet

		ASW 75K-LT	ASW 80K-LT	ASW 100K-LT	ASW 110K-LT
Input (DC)	Max. PV array power	112500 Wp STC	120000 Wp STC	150000 Wp STC	165000 Wp STC
	Max. input voltage	1100 V			
	MPP voltage range / rated input voltage	200V - 1000 V / 630 V			
	Min. input voltage	200 V			
	Initial. feed-in voltage	250 V			
	Max. operating input current	32 A			
	Max. short circuit current	48 A			
	No. of independent MPPT inputs / strings per MPPT input	8/2	8/2	10/2	10/2
Output (AC)	Rated active power	75000 W	80000 W	100000 W	110000 W
	Rated appearant power	75000 VA	80000 VA	100000 VA	110000 VA
	Max. apparent power	75000 W	88000 W	110000 W	121000 W
	AC nominal voltage	220 V / 380 V 230 V / 400 V			
	AC voltage range	312 V - 528 V			
	AC grid frequency / range	50 Hz / 45 Hz - 55 Hz 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	●			
	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)	●			
	24/7 moitoring	●			
	Communication interface	●/●/●/O (RS485 /Wi-Fi/ LAN /4G)			
	Modbus-Sunspec protocol	●			
	Certificates and approvals (more available on request)	CE, IEC 62109-1/2, IEC 61727, IEC 62116, IEC61683, EN50549-1/2, VDE4105			

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

Three phase inverters 125 kW

ASW LT Series



Models:
ASW125K-LT

Higher Yields

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

Smart O&M

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

User-friendly

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

Technical Datasheet

		ASW 125K-LT
Input (DC)	Max. PV array power	187500 Wp STC
	Max. input voltage	1100 V
	MPP voltage range / rated input voltage	200 V - 1000 V / 630 V
	Min. input voltage	200 V
	Initial. feed-in voltage	250 V
	Max. operating input current	10 * 40 A
	Max. short circuit current	10 * 50 A
	No. of independent MPPT inputs / strings per MPPT input	10 / 2
Output (AC)	Rated active power	125000 W
	Rated apparent power	125000 VA
	Max. apparent power	137500 VA
	AC nominal voltage	220 V / 380 V 230 V / 400 V
	AC voltage range	180 to 305 V / 312 V to 528 V
	AC grid frequency / range	50Hz / 60Hz 45Hz - 65Hz
	Nominal output current	190.0 A
	Max. output current	209.0 A
	Adjustable power factor range	0.8 leading to 0.8 lagging
	Feed-in phases	3 / 3-N-PE
	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	●
	All-pole-sensitive residual-current monitoring unit	●
	Anti-islanding protection	●
	DC surge protection	Type II: ● Type I+II: O
	AC surge protection	Type I+II: O
	Arc Fault circuit interrupter (AFCI)	●
	PID recovery	O
	Protection class (according to IEC 62109-1) / Overvoltage category (according to IEC 62109-1)	I / AC: III; DC: II
	Sunspec protocol (RTU)	●
General data	Dimensions (W / H / D)	984 / 640 / 330 mm
	Weight	87.0 kg
	Operating temperature range	-30°C ... +60°C
	Self-consumption (at night)	< 5 W
	Topology	Non-isolated
	Cooling concept	Active cooling
	Degree of protection (according to IEC 60529)	IP66
	Climatic category (according to IEC 60721-3-4)	4K4H
	Relative humidity (non-condensing)	100%
	Max. operating altitude	4000 m
Features	DC connection	Sunclix
	AC connection	OT/DT Connector
	LED indicators (Status / Fault / Communication)	●
	Communication interface	●/●/●/O (RS485 /Wi-Fi/ LAN /4G)
	Certificates and approvals (more available on request)	CE,IEC 62109-1/2, IEC 63027,IEC61727,EN50549

● standard features / O optional features / - not available

Three Phases Inverters 250 to 360 kW

ASW HT Series



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

Safe & reliable

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

Minimizing LCOE

- Maximizing yield by leading conversion efficiency > 99%
- Compatible with max. 500mm² AC cables
- Night and day time reactive power control
- 75A per MPPT, compatible with high current PV modules

Smart O&M

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

Technical Datasheet

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

● standard features / O optional features

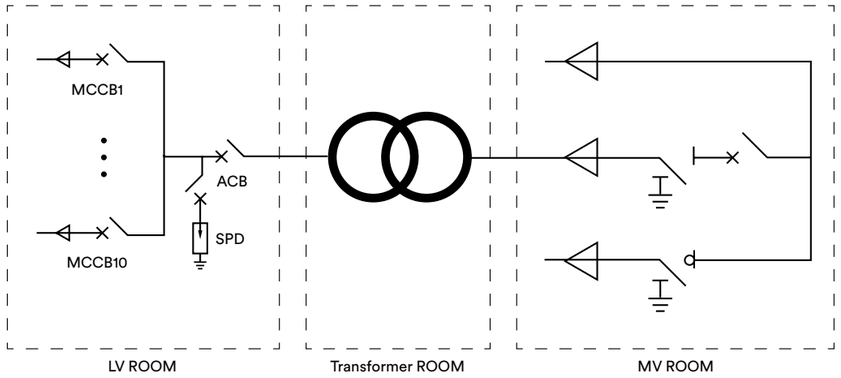
Transformer station 3000 to 9000k

ASW MT Series



Models:
ASW3000K-MT
ASW6000K-MT
ASW9000K-MT

Circuit Diagram



High Integration

- Standard container design include LV panel, transformer, RMU for easy tranportation
- No internal cabling needed onsite, pre-assembled in the factory

Flexible

- Compatible with ASW-HT series inverter
- Up to 9MW block design

Easy O&M

- Modular design, easy to locate and replace faults
- LV panel, transformer and RMU monitored online, remotely controls LV panel and RMU

Reliable

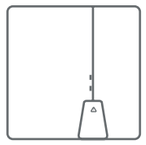
- Components compliance with requirements of standards
- Excellent protection design ensures working in harsh enviroments

Technical Datasheet		ASW3000K-MT	ASW6000K-MT	ASW9000K-MT
Inverter model		ASW360K-HT		
Transformer	AC power	3,630 kVA @30°C 3,300 kVA @40°C	7260 kVA @30°C 6600 kVA @40°C	10164 kVA @30°C 9240 kVA @40°C
	LV / MV voltage	0.8 kV / 10~35 kV	0.8-0.8 kV / 10~35 kV	0.8-0.8 kV / 10~35 kV
	Frequency	50 Hz / 60 Hz	50 Hz / 60 Hz	50 Hz / 60 Hz
	Transformer type	Oil-immersed	Oil-immersed	Oil-immersed
	Transformer cooling type	ONAN	ONAN	ONAN
	Transformer tappings	± 2 x 2.5%	± 2 x 2.5%	± 2 x 2.5%
	Transformer oil type	Mineral oil (PCB free)	Mineral oil (PCB free)	Mineral oil (PCB free)
	Transformer vector group	Dy11	Dy11-y11	Dy11-y11
	Winding material	AL / AL	AL / AL	AL / AL
	Insulation class	A	A	A
	Transformer efficiency	≥ 99%	≥ 99%	≥ 99%
LV ROOM	Max. LV AC inputs	10	20	28
	Rated input voltage	800 V	800 V	800 V
	LV main switches	ACB (3200 A, 1 pcs)	ACB (3200 A, 2 x 1 pcs)	ACB (4000 A, 2 x 1 pcs)
	LV AC inputs switches	MCCB (400 A, 10 pcs)	MCCB (400 A, 2 x 10 pcs)	MCCB (400 A, 2 x 14 pcs)
MV ROOM	RMU type	SF6 Gas insulated	SF6 Gas insulated	SF6 Gas insulated
	Rated output voltage	10~35 kV	10~35 kV	10~35 kV
	Qty. of feeder	3 feeders	3 feeders	3 feeders
	Internal arcing fault	IAC A 20 kA 1s	IAC A 20 kA 1s	IAC A 20 kA 1s
	Auxiliary transformer	Dry type transformer, 5 kVA, 400 Vac	Dry type transformer, 5 kVA, 400 Vac	Dry type transformer, 5 kVA, 400 Vac
	UPS	1 kVA	1 kVA	1 kVA
Protection	Transformer detection & protection	Oil level, oil temperature, oil pressure; buchholz	Oil level, oil temperature, oil pressure; buchholz	Oil level, oil temperature, oil pressure; buchholz
	Protection degree of MV & LV room	IP54	IP54	IP54
	MV relay protection	50 / 51, 50N / 51N	50 / 51, 50N / 51N	50 / 51, 50N / 51N
	LV overvoltage protection	Type I+II	Type I+II	Type I+II
	Anti-rodent protection	●: C4-H O: C5-M	●: C4-H O: C5-M	●: C4-H O: C5-M
General Data	Dimensions (W / H / D)	6,058 / 2,896 / 2,438 mm	6,058 / 2,896 / 2,438 mm	6,058 / 2,896 / 2,438 mm
	Weight	< 19 t	< 23 t	< 27 t
	Operating temperature range	-25°C~60°C	-25°C~60°C	-25°C~60°C
	Relative humidity	0% ~ 100% (non-condensing)	0% ~ 100% (non-condensing)	0% ~ 100% (non-condensing)
	Max. operating altitude	●: 2000 m O: > 2000 m	●: 2000 m O: > 2000 m	●: 2000 m O: > 2000 m
	LV & MV room cooling	Smart cooling	Smart cooling	Smart cooling
Communication interface	Modbus-RTU	●	●	●
	Ethernet	●	●	●
	Optical fiber	O	O	O
Features	MV surge arrester for transformer	O	O	O
	2 kVA UPS	O	O	O
	Auxiliary transformer 40 kVA	O	O	O
	Operating temperature range	-30°C ~ 60°C (Optional)	-30°C ~ 60°C (Optional)	-30°C ~ 60°C (Optional)
Compli-ance	Certificates and approvals	IEC 62271-202, EN 50588-1, IEC 60076, IEC 62271-200, IEC 61439-1/-2	IEC 62271-202, EN 50588-1, IEC 60076, IEC 62271-200, IEC 61439-1/-2	IEC 62271-202, EN 50588-1, IEC 60076, IEC 62271-200, IEC 61439-1/-2

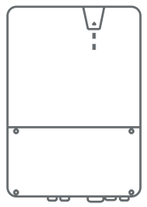
● standard features / O optional features

Hybrid Inverters

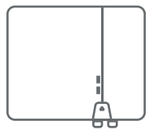
Perfect for home & small commercial and industrial applications



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

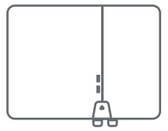


ASW SH SERIES
ASW008K / 010K-SH



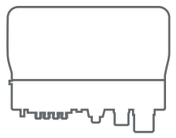
ASW H-T2 SERIES
ASW05k / 06k / 08k /10k / 12kH-T2
ASW05k / 06k / 08k /10k / 12kH-T2-O

ASW H-T3 SERIES
ASW08k /10k / 12kH-T3
ASW08k /10k / 12kH-T3-O



ASW H-T2-DG SERIES
ASW05k / 06k / 08k / 10k / 12kH-T2-DG

ASW H-T3-DG SERIES
ASW08k / 10k / 12kH-T3-DG



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



ASW A-S SERIES

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

Single phase hybrid inverters 3 to 6 kW

ASW H-S2 Series



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

Easy-to-install

- Quick and easy-to-install with standard tools
- Smart setup, commissioning and monitoring via Solplanet App
- Compact wall mount design

Safe & reliable

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

User-friendly

- User friendly app interface
- ShadeSol - improved generation under non-ideal conditions

Technical Datasheet

		ASW3000H-S2	ASW3680H-S2	ASW4000H-S2	ASW5000H-S2	ASW6000H-S2
PV Input	Max. PV array power	5500 Wp STC	6180 Wp STC	6500 Wp STC	7500 Wp STC	9000 Wp STC
	Max. input voltage	550 V				
	MPP voltage range / rated input voltage	40 V to 530 V / 380 V				
	Min. input voltage / start voltage	40 V/ 50 V				
	No. of independent MPPT trackers / strings per MPPT input	2 / 1				
	Max. input current per MPP tracker	16 A				
	Max. short-circuit current per MPP tracker	20 A				
Battery input	Nominal battery voltage	48 V				
	Battery voltage range	40 V to 60 V				
	Max. charging / discharging power	5000 W / 5000 W				
	Max. charging current / Max. discharging current	100 A / 100A				
	Battery type	LiFePO4				
	Compatible Battery	Aiswei Ai-LB series*3				
AC output	AC voltage range / Nominal AC voltage	180 V to 280 V / 220, 230 V				
	Rated AC grid frequency	50 Hz / 60 Hz				
	AC grid frequency range	50 Hz±5Hz / 60 Hz±5Hz				
	Rated active power	3000 W	3680 W	4000 W	5000 W*1	6000 W
	Rated apparent power	3000 VA	3680 VA	4000 VA	5000 VA*1	6000 VA
	Max. apparent power	3000 VA	3680 VA	4000 VA	5000 VA*1	6000 VA
	Rated grid output Current (@230V)	13.1 A	16 A	17.4 A	21.7 A*2	26.1 A
	Max. grid output current	13.6 A	16 A	18.2 A	22.7 A*2	27.3 A
	Harmonics THDi (@ Nominal power)	< 3%				
AC input	Rated grid voltage	a.c. 220, 230V				
	Rated apparent power	6000 VA				
	Max. input apparent power from grid	6000 VA				
	Rated input current from grid	a.c. 26.1 A				
	Max. input current from grid	a.c. 27.3 A				
EPS output	Nominal output voltage	220, 230 V				
	Nominal output frequency	50 Hz / 60 Hz				
	Rated apparent power	5000 VA				
	Max. output apparent power	5000 VA				
	Peak output apparent power	7500 VA, 10s				
	Rated Current (@230V)	21.7A				
	Max. output current	21.7A				
	Max. switch time	≤ 10 ms				
	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				
	Arc fault circuit interrupter (AFCI)	○ 4				
General data	Power factor at rated power / adjustable displacement	≥0.99 / 0.8 leading to 0.8 lagging				
	Dimensions (W / H / D)	483 / 455 / 193.5 mm				
	Device weight	25.1kg				
	Operating temperature range	-25 °C ... +60 °C				
	Noise emissions (typical)	30 dB(A)				
	Standby consumption	< 10 W				
	Cooling concept	Natural convection				
	Degree of protection (as per IEC 60529)	IP66				
	Climatic category (according to IEC 60721-3-4)	4K4H				
	Max. permissible value for relative humidity (non-condensing)	100%				
	Max. operating altitude	4000m (>3000m power derating)				
	Country of manufacture	THE PEOPLE'S REPUBLIC OF CHINA				
Features	User interface	LED & App				
	Communication with BMS	CAN				
	Communication with meter	RS485				
	Communication with portal	WIFI stick / LAN				
	Other communication	DRM				
	Integrated power control / Zero export control	● / ●				

● Standard features / ○ optional features / – not available
*1 For VDE-AR-N4105,Smax=Sn=4600VA,Pn=4600W *2 For AS/NZS4777.2,Iac max=21.7A *3 Including but not limited to the listed models, please check the website@solplanet for more compatible models
4 Please consult local sales team for product availability

Single phase hybrid inverters 8 to 10 kW

ASW SH Series



Models:
ASW008K-SH
ASW010K-SH

Optimal performance

- 3 independent MPPTs for flexible and optimized large PV array design
- Max. 20 A input current per MPPT, ideal for bifacial and large area PV modules
- Up to 200% PV array oversizing for higher energy yields
- ShadeSol shadow management

Safe & reliable

- UPS-level switching time < 10 ms
- IP66 rated design for indoor and outdoor use
- Up to 200% power output for 10s during power outages
- Multi-source design for black start, integrating PV, battery, and generator

User-friendly

- Expandable up to 30 kW in on-grid and off-grid mode
- Compatible with both lead-acid and lithium batteries
- Smart setup, commissioning and monitoring via Solplanet App

Technical Datasheet

		ASW008K-SH	ASW010K-SH
PV Input	Max. PV array power	16000 Wp	20000 Wp
	Max. input voltage	550 V	
	MPP voltage range / rated input voltage	40~530 V / 380 V	
	Min. input voltage / start voltage	40 V / 50 V	
	No. of independent MPPT trackers / strings per MPPT input	3 / 1	
	Max. input current / Max. power per MPP tracker	20 A / 10000 W	20 A / 10000 W
	Max. short-circuit current per MPP tracker	25 A	
Battery input	Battery voltage range	40 V to 60V	
	Max. charge / discharge power	8000 W	10000 W
	Max. charge current / Max. discharge current	190 A	210 A
	Battery type	LiFePO4 / Lead-acid	
AC output	AC voltage range / Nominal AC voltage	154 V to 276 V / 220, 230, 240, L/N	
	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
	Max. apparent power	8000 VA	10000 VA
	Rated grid output current (@230 V)	34.8 A	43.5 A
	Max. grid output current (@230 V)	38.3 A	47.8 A
	Harmonic distortion (THD) at rated output	< 3 % (of nominal power)	
	Power factor at rated power / adjustable range	1 / 0.8 leading to 0.8 lagging	
AC input	Nominal AC voltage	220, 230, 240, L/N	
	Rated grid frequency	50 Hz / 60 Hz	
	Max. input power from grid	16000 W	18000 W
	Max. input current from grid	69.6 A	78.3 A
EPS output	Nominal AC voltage	220, 230, 240, L/N	
	Nominal output frequency	50 Hz / 60 Hz	
	Rated apparent power	8000 VA	10000 VA
	Peak output apparent power (off-grid up to 10s)	16000 VA	20000 VA
	Rated current (@230 V)	34.8 A	43.5 A
	Max. current (@230 V, continuous on-grid / off-grid)	38.3 A	47.8 A
	Max. switch time	< 10 ms	
	Output THDv (@ Linear load)	2%	
Generator side	Max. intput apparent power	8000 VA	10000 VA
	Max. charge / discharge power	8000 VA	10000 VA
	Max. input current	36.4 A	45.5 A
	Rated AC voltage	220, 230, 240, L/N	
	Rated AC frequency	50 Hz / 60 Hz	
Effi-ciency	MPPT efficiency	99.90%	
	European efficiency / Max. efficiency	97 % / 97.6 %	
Safety protection	Surge protection	● / Type II	
	Insulation resistance detection	●	
	PV string input reverse polarity protection	●	
	Ground fault monitoring	●	
	Residual current monitoring unit	●	
	AC short circuit protection	●	
	Anti-islanding protection	●	
General data	Dimensions (W / H / D)	484 / 679 / 230 mm	
	Weight	34.5 kg	
	Operating temperature range	-25 °C ... +60 °C	
	Cooling concept	Smart cooling	
	Degree of protection (as per IEC 60529)	IP66	
	Max. relative humidity	100%	
	Max. operating altitude	3000 m	
Features	User interface	LED & App	
	BMS interface	CAN	
	Communication interfaces	Dongle: WiFi (2.4 GHz) / LAN (100 Mbps) Inverter: RS485 (ModBus RTU), LAN (100Mbps, Modbus TCP only)	
	Digital output (dry contact) / No. of outputs	● / 2	
	Digital input (dry contact) / No. of inputs	● / 6	
	Integrated power control / export power control	● / ●	

● standard features / ○ optional features / - not available

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

Safe & reliable

- Up to 150 % PV array oversizing for higher yields
- Available with or without asymmetrical power output [1]
- UPS level switching time < 10 ms
- IP66 rated design for indoor and outdoor use
- Arc fault circuit interrupter (AFCI) [2]

User-friendly

- Smart setup, commissioning and monitoring via Solplanet App
- Intelligent operation modes and smart battery management for DOD / Time of Use / Power setting
- Max. 20 A input current, ideal for bifacial and large PV modules
- Supporting parallel for on-grid and off-grid operation

Technical Datasheet		ASW05kH-T2		ASW06kH-T2		ASW08kH-T2		ASW10kH-T2		ASW12kH-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 [3]					
	Min. input voltage / start voltage	60 V / 180 V									
	No. of independent MPPT trackers / strings per MPPT input	2 / 1									
	Max. input current / Max. power per MPP tracker	20 A	7500 W	20 A	9000 W	20 A	10000 W	20 A	10000 W	20 A	10000 W
	Max. short-circuit current per MPP tracker	30 A									
Battery input	Battery voltage range	120 V to 600 V									
	Max. charging / discharging power	5000 W		6000 W		8000 W		10000 W		12000 W	
	Max. charging current / Max. discharging current	30A									
	Battery type	LiFePO4									
AC input	Rated grid voltage	3/N/PE, 220 V / 380 V; 230 V / 400 V; 240 V / 415 V									
	Rated grid frequency	50 Hz / 60 Hz									
	Max. input power from grid	10000 W		12000 W		16000 W		20000 W		24000 W	
	Max. input current from grid	14.5 A		17.4 A		23.2 A		29.0 A		34.8 A	
AC output	AC voltage range / Nominal AC voltage	270 V to 480 V / 3/N/PE, 220 V / 380 V; 230 V / 400 V; 240 V / 415 V									
	Rated AC grid frequency	50 Hz / 60 Hz									
	AC grid frequency range	45 ~ 55 Hz / 55 ~ 65 Hz									
	Rated apparent power	5000 VA		6000 VA		8000 VA		10000 VA		12000 VA	
	Max. apparent power	5000 VA		6000 VA		8000 VA		10000 VA		12000 VA	
	Rated grid output current (@400 V)	7.3 A		8.7 A		11.6 A		14.5 A		17.4 A	
	Max. grid output current (@400 V)	8.0 A		9.6 A		12.8 A		16.0 A		19.2 A	
	Power factor at rated power / adjustable range	1 / 0.8 leading to 0.8 lagging									
	Harmonics THDi (@Nominal power)	< 3 % (of nominal power)									
EPS output	Nominal output voltage	3/N/PE, 220 V / 380 V; 230 V / 400 V; 240 V / 415 V									
	Nominal output frequency	50 Hz / 60 Hz									
	Rated apparent power	5000 VA		6000 VA		8000 VA		10000 VA		12000 VA	
	Rated current (@400 V)	7.3 A		8.7 A		11.6 A		14.5 A		17.4 A	
	Max. current (@400 V, continuous on-grid / off-grid)	14.5 A	7.3 A	17.4 A	8.7 A	23.2 A	11.6 A	29.0 A	14.5 A	34.8 A	17.4 A
	Max. power on each phase (@400 V, continuous on-grid / off-grid)	3333 W	1667 W	4000 W	2000 W	5333 W	2667 W	6667 W	3333 W	8000 W	4000 W
	Peak output apparent power (@400 V, continuous on-grid / off-grid up to 10s)	10000 VA	10000 VA	12000 VA	12000 VA	16000 VA	16000 VA	20000 VA	20000 VA	24000 VA	24000 VA
	Max. switch time	< 10 ms									
	Output THDv (@Linear load)	2 %									
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	●									
	Arc fault circuit interrupter (AFCI)	○ [2]									
General data	Dimensions (W / H / D)	545 / 465 / 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									
	Communication interfaces	Dongle: WiFi (2.4 GHz) / LAN (100 Mbps) Inverter: RS485 (ModBus RTU), LAN (100 Mbps, Modbus TCP only) [4]									
	Digital output (dry contact) / No. of outputs	● / 2									
	Digital input (dry contact) / No. of inputs	● / 4									
	Integrated power control / export power control	● / ●									

● standard features / ○ optional features / - not available

[1] Asymmetrical power output functionality released in August 2024, please confirm version with Solplanet's sales staff before purchase.
[2] AFCI functionality released in April 2025, please confirm version with Solplanet's sales staff before purchase.
[3] The latest optimised platform design supports MPP voltage range at 150V-950V, pending subsequent certificate updates.
[4] Modbus TCP functionality released in April 2025, please confirm version with Solplanet's sales staff before purchase.

Technical Datasheet

		ASW05kH-T2-O		ASW06kH-T2-O		ASW08kH-T2-O		ASW10kH-T2-O		ASW12kH-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 [3]					
	Min. input voltage / start voltage	60 V / 180 V									
	No. of independent MPPT trackers / strings per MPPT input	2 / 1									
	Max. input current / Max. power per MPP tracker	20 A	7500 W	20 A	9000 W	20 A	10000 W	20 A	10000 W	20 A	10000 W
	Max. short-circuit current per MPP tracker	30 A									
Battery input	Battery voltage range	120 V to 600 V									
	Max. charging / discharging power	5000 W		6000 W		8000 W		10000 W		12000 W	
	Max. charging current / Max. discharging current	30 A									
	Battery type	LiFePO4									
AC input	Rated grid voltage	3/N/PE, 220 V / 380 V; 230 V / 400 V; 240 V / 415 V									
	Rated grid frequency	50 Hz / 60 Hz									
	Max. input power from grid	5000 W		6000 W		8000 W		10000 W		12000 W	
	Max. input current from grid	7.3 A		8.7 A		11.6 A		14.5 A		17.4 A	
AC output	AC voltage range / Nominal AC voltage	270 V to 480 V / 3/N/PE, 220 V / 380 V; 230 V / 400 V; 240 V / 415 V									
	Rated AC grid frequency	50 Hz / 60 Hz									
	AC grid frequency range	45~55 Hz / 55~65 Hz									
	Rated apparent power	5000 VA		6000 VA		8000 VA		10000 VA		12000 VA	
	Max. apparent power	5000 VA		6000 VA		8000 VA		10000 VA		12000 VA	
	Rated grid output Current current (@400 V)	7.3 A		8.7 A		11.6 A		14.5 A		17.4 A	
	Max. grid output current(@400 V)	8.0 A		9.6 A		12.8 A		16.0 A		19.2 A	
	Power factor at rated power / adjustable range	1 / 0.8 leading to 0.8 lagging									
	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 General data	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	●									
	Arc fault circuit interrupter (AFCI)	○ [2]									
General data	Dimensions (W / H / D)	545 / 465 / 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									
	Communication interfaces	Dongle: WiFi (2.4 GHz) / LAN (100 Mbps) Inverter: RS485 (ModBus RTU), LAN (100 Mbps, Modbus TCP only) [4]									
	Digital output (dry contact) / No. of outputs	● / 2									
	Digital input (dry contact) / No. of inputs	● / 4									
	Integrated power control / export power control	● / ●									

● standard features / ○ optional features / - not available

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

[2] AFCI functionality released in April 2025, please confirm version with Solplanet's sales staff before purchase.

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

[4] Modbus TCP functionality released in April 2025, please confirm version with Solplanet's sales staff before purchase.

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

Safe & reliable

- Up to 150 % PV array oversizing for higher yields
- Available with or without asymmetrical power output [1]
- UPS level switching time < 10 ms
- IP66 rated design for indoor and outdoor use
- Arc fault circuit interrupter (AFCI) [2]

User-friendly

- 3 independent MPPTs for flexible and higher kWp PV array design
- Smart setup, commissioning and monitoring via Solplanet App
- Intelligent operation modes and smart battery management for DOD / Time of Use / Power setting
- Max. 16 A input current, ideal for bifacial and large PV modules
- Supporting parallel for on-grid and off-grid operation

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 [3]					
	Min. input voltage / start voltage	60 V / 180 V					
	No. of independent MPPT trackers / strings per MPPT input	3 / 1					
	Max. input current / Max. power per MPP tracker	16 A	10000 W	16 A	10000 W	16 A	10000 W
	Max. short-circuit current per MPP tracker	24 A					
Battery input	Battery voltage range	120 V to 600 V					
	Max. charging / discharging power	8000 W		10000 W		12000 W	
	Max. charging current / Max. discharging current	30 A					
	Battery type	LiFePO4					
AC input	Rated grid voltage	3/N/PE, 220 / 380 V; 230 / 400 V; 240 / 415 V					
	Rated grid frequency	50 Hz / 60 Hz					
	Max. input power from grid	16000 W		20000 W		24000 W	
	Max. input current from grid	23.2 A		29.0 A		34.8 A	
AC output	AC voltage range / Nominal AC voltage	270V to 480V / 3/N/PE, 220 V / 380 V; 230 V / 400 V; 240 V / 415 V					
	Rated AC grid frequency	50 Hz / 60 Hz					
	AC grid frequency range	45 ~ 55 Hz / 55 ~ 65 Hz					
	Rated apparent power	8000 VA		10000 VA		12000 VA	
	Max. apparent power	8000 VA		10000 VA		12000 VA	
	Rated grid output current (@400 V)	11.6 A		14.5 A		17.4 A	
	Max. grid output current(@400 V)	12.8 A		16.0 A		19.2 A	
	Power factor at rated power / adjustable displacement	1 / 0.8 leading to 0.8 lagging					
	Harmonics THDi (@ Nominal power)	< 3 % (of nominal power)					
EPS output	Nominal output voltage	3/N/PE, 220 V / 380 V; 230 V / 400 V; 240 V / 415 V					
	Nominal output frequency	50 Hz / 60 Hz					
	Rated apparent power	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	●					
	Arc fault circuit interrupter (AFCI)	○ [2]					
General data	Dimensions (W / H / D)	545 / 465 / 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					
	Communication interfaces	Dongle: WiFi (2.4 GHz) / LAN (100 Mbps) Inverter: RS485 (ModBus RTU), LAN (100 Mbps, Modbus TCP only) [4]					
	Digital output (dry contact) / No. of outputs	● / 2					
	Digital input (dry contact) / No. of inputs	● / 4					
	Integrated power control / export power control	● / ●					

● standard features ○ optional features - not available

[1] Asymmetrical power output functionality released in August 2024, please confirm version with Solplanet's sales staff before purchase.
[2] AFCI functionality released in April 2025, please confirm version with Solplanet's sales staff before purchase.
[3] The latest optimised platform design supports MPP voltage range at 150V-950V, pending subsequent certificate updates.
[4] Modbus TCP functionality released in April 2025, please confirm version with Solplanet's sales staff before purchase.

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 [3]					
	Min. input voltage / start voltage	60 V / 180 V					
	No. of independent MPPT trackers / strings per MPPT input	3 / 1					
	Max. input current / Max. power per MPP tracker	16 A	10000 W	16 A	10000 W	16 A	10000 W
	Max. short-circuit current per MPP tracker	24 A					
Battery input	Battery voltage range	120 V to 600 V					
	Max. charging / discharging power	8000 W		10000 W		12000 W	
	Max. charging current / Max. discharging current	30 A					
	Battery type	LiFePO4					
AC input	Rated grid voltage	3/N/PE, 220 / 380 V; 230 / 400 V; 240 / 415 V					
	Rated grid frequency	50 Hz / 60 Hz					
	Max. input power from grid	8000 W		10000 W		12000 W	
	Max. input current from grid	11.6 A		14.5 A		17.4 A	
AC output	AC voltage range / nominal AC voltage	270V to 480V / 3/N/PE, 220 V / 380 V; 230 V / 400 V; 240 V / 415 V					
	Rated AC grid frequency	50 Hz / 60 Hz					
	AC grid frequency range	45 ~ 55 Hz / 55 ~ 65 Hz					
	Rated apparent power	8000 VA		10000 VA		12000 VA	
	Max. apparent power	8000 VA		10000 VA		12000 VA	
	Rated grid output current (@400 V)	11.6 A		14.5 A		17.4 A	
	Max. grid output current (@400 V)	12.8 A		16.0 A		19.2 A	
	Power factor at rated power / adjustable range	1 / 0.8 leading to 0.8 lagging					
	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	●					
	Arc fault circuit interrupter (AFCI)	○ [2]					
General data	Dimensions (W / H / D)	545 / 465 / 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					
	Communication interfaces	Dongle: WiFi (2.4 GHz) / LAN (100 Mbps) Inverter: RS485 (ModBus RTU), LAN (100 Mbps, Modbus TCP only) [4]					
	Digital output (dry contact) / No. of outputs	● / 2					
	Digital input (dry contact) / No. of inputs	● / 4					
	Integrated power control / export power control	● / ●					

● standard features / ○ optional features / - not available

[1] Asymmetrical power output functionality released in August 2024, please confirm version with Solplanet's sales staff before purchase.
[2] AFCI functionality released in April 2025, please confirm version with Solplanet's sales staff before purchase.
[3] The latest optimised platform design supports MPP voltage range at 150V-950V, pending subsequent certificate updates.
[4] Modbus TCP functionality released in April 2025, please confirm version with Solplanet's sales staff before purchase.

Three phase hybrid inverters 5 to 12 kW

ASW H-T2-DG Series



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

Easy-to-install

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

Safe & reliable

- Up to 150 % PV array oversizing for higher yields
- Asymmetrical power output
- UPS level switching time < 10 ms
- IP66 rated design for indoor and outdoor use
- DC SPD surge protection
- Arc fault circuit interrupter (AFCI) [1]

User-friendly

- Max. 50 A charge / discharge current
- Compatible with diesel generator
- Smart setup, commissioning and monitoring via Solplanet App
- Intelligent operation modes and smart battery management for DOD / Time of Use / Power setting
- Max. 20 A input current, ideal for bifacial and large PV modules
- Supporting parallel for on-grid and off-grid operation

Technical Datasheet

		ASW05kH-T2-DG		ASW06kH-T2-DG		ASW08kH-T2-DG		ASW10kH-T2-DG		ASW12kH-T2-DG	
PV input	Max. PV array power	7500 Wp		9000 Wp		12000 Wp		15000 Wp		18000 Wp	
	Max. input voltage	1100 V									
	MPP voltage range / rated input voltage	150 V to 950 V / 630 V									
	Min. input voltage / start voltage	60 V / 180 V									
	No. of independent MPPT trackers / strings per MPPT input	2 / 1									
	Max. input current / Max. power per MPP tracker	20 A	7500 W	20 A	9000 W	20 A	10000 W	20 A	10000 W	20 A	10000 W
	Max. short-circuit current per MPP tracker	30 A									
Battery input	Battery voltage range	120 V to 600 V									
	Max. charging power from PV and grid	12000 W									
	Max. charging power from grid	5000 W		6000 W		8000 W		10000 W		12000 W	
	Max. discharging power	5000 W		6000 W		8000 W		10000 W		12000 W	
	Max. charging current / Max. discharging current	50 A									
	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	
	Power factor at rated power / adjustable range	1 / 0.8 leading to 0.8 lagging									
	Harmonics THDi (@ Nominal power)	< 3 % (of nominal power)									
EPS output	Nominal output voltage	3/N/PE, 220 V / 380 V; 230 V / 400 V; 240 V / 415 V									
	Nominal output frequency	50 Hz / 60 Hz									
	Rated apparent power	5000 VA		6000 VA		8000 VA		10000 VA		12000 VA	
	Rated current (@400 V)	7.3 A		8.7 A		11.6 A		14.5 A		17.4 A	
	Max. current (@400 V, continuous on-grid / off-grid)	14.5 A	7.3 A	17.4 A	8.7 A	23.2 A	11.6 A	29.0 A	14.5 A	34.8 A	17.4 A
	Max. power on each phase (@400 V, continuous on-grid / off-grid)	3333 W	1667 W	4000 W	2000 W	5333 W	2667 W	6667 W	3333 W	8000 W	4000 W
	Peak output apparent power (@400 V, continuous on-grid / off-grid up to 10s)	10000 VA	10000 VA	12000 VA	12000 VA	16000 VA	16000 VA	20000 VA	20000 VA	24000 VA	24000 VA
	Max. switch time	< 10 ms									
	Output THDv (@ Linear load)	2 %									
Generator side	Max. input apparent power	7500 VA		9000 VA		12000 VA		15000 VA		18000 VA	
	Max. charging power of battery	5000 W		6000 W		8000 W		10000 W		12000 W	
	Rated AC voltage	3/N/PE, 220 / 380 V; 230 / 400 V; 240 / 415 V									
	Rated AC frequency	50 Hz / 60 Hz									
Efficiency	MPPT efficiency	99.9 %									
	Euro efficiency / Max. efficiency	97.2 % / 98.0 %		97.5 % / 98.2 %		97.9 % / 98.4 %					
Safety protection	DC surge protection (Type II, according to EN/IEC 61643-11)	●									
	Insulation resistance detection	●									
	PV string input reverse polarity protection	●									
	Battery input reverse polarity protection	●									
	Ground fault monitoring	●									
	Residual current monitoring unit	●									
	AC short circuit protection	●									
	Anti-islanding protection	●									
	Arc fault circuit interrupter (AFCI)	○ [1]									
General data	Dimensions (W / H / D)	625 / 465 / 241 mm									
	Weight	28 kg									
	Operating temperature range	-25 °C ... +60 °C									
	Cooling concept	Natural convection									
	Degree of protection (as per IEC 60529)	IP66									
	Max. relative humidity	100 %									
	Max. operating altitude	4000 m									
Features	User interface	LED & App									
	BMS interface	CAN									
	Smart meter interface	RS485									
	Communication interfaces	Dongle: WiFi (2.4 GHz) / LAN (100 Mbps) Inverter: RS485 (ModBus RTU), LAN (100 Mbps, Modbus TCP only)									
	Digital output (dry contact) / No. of outputs	● / 2									
	Digital input (dry contact) / No. of inputs	● / 4									
	Integrated power control / export power control	● / ●									

● standard features / ○ optional features / - not available

[1] AFCI functionality released in April 2025, please confirm version with Solplanet's sales staff before purchase.

Three phase hybrid inverters 8 to 12 kW

ASW H-T3-DG Series



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

Easy-to-install

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

Safe & reliable

- Up to 150 % PV array oversizing for higher yields
- Asymmetrical power output
- UPS level switching time < 10 ms
- IP66 rated design for outdoor use
- DC SPD surge protection
- Arc fault circuit interrupter (AFCI) [1]

User-friendly

- 3 independent MPPTs for flexible and higher kWp PV array design
- Max. 50A charge / discharge current
- Compatible with diesel generator
- Smart setup, commissioning and monitoring via Solplanet App
- Intelligent operation modes and smart battery management for DOD / Time of Use / Power setting
- Max. 16 A input current, ideal for bifacial and large PV modules
- Supporting parallel for on-grid and off-grid operation

Technical Datasheet

		ASW08kH-T3-DG		ASW10kH-T3-DG		ASW12kH-T3-DG	
PV input	Max. PV array power	12000 Wp		15000 Wp		18000 Wp	
	Max. input voltage	1100 V					
	MPP voltage range / rated input voltage	150 V to 950 V / 630 V					
	Min. input voltage / start voltage	60 V / 180 V					
	No. of independent MPPT trackers / strings per MPPT input	3 / 1					
	Max. input current / Max. power per MPP tracker	16 A	10000 W	16 A	10000 W	16 A	10000 W
	Max. short-circuit current per MPP tracker	24 A					
Battery input	Battery voltage range	120 V to 600 V					
	Max. charging power from PV and grid	12000 W					
	Max. charging power from grid	8000 W		10000 W		12000 W	
	Max. discharging power	8000 W		10000 W		12000 W	
	Max. charging current / Max. discharging current	50 A					
	Battery type	LiFePO4					
AC input	Rated grid voltage	3/N/PE, 220 V / 380 V; 230 V / 400 V; 240 V / 415 V					
	Rated grid frequency	50 Hz / 60 Hz					
	Max. input power from grid	16000 W		20000 W		24000 W	
	Max. input current from grid	23.2 A		29.0 A		34.8 A	
AC output	AC voltage range / Nominal AC voltage	270V to 480V / 3/N/PE, 220 V / 380 V; 230 V / 400 V; 240 V / 415 V					
	Rated AC grid frequency	50 Hz / 60 Hz					
	AC grid frequency range	45~55 Hz / 55~65 Hz					
	Rated apparent power	8000 VA		10000 VA		12000 VA	
	Max. apparent power	8000 VA		10000 VA		12000 VA	
	Rated grid output current (@400 V)	11.6 A		14.5 A		17.4 A	
	Max. grid output current(@400 V)	12.8 A		16.0 A		19.2 A	
	Power factor at rated power / adjustable displacement	1 / 0.8 leading to 0.8 lagging					
	Harmonics THDi (@ Nominal power)	< 3 % (of nominal power)					
EPS output	Nominal output voltage	3/N/PE, 220 V / 380 V; 230 V / 400 V; 240 V / 415 V					
	Nominal output frequency	50 Hz / 60 Hz					
	Rated apparent power	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 %					
Genera-tor side	Max. input apparent power	12000 VA		15000 VA		18000 VA	
	Max. charging power of battery	8000 W		10000 W		12000 W	
	Rated AC voltage	3/N/PE, 220 / 380 V; 230 / 400 V; 240 /415 V					
	Rated AC frequency	50 Hz / 60 Hz					
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	●					
	Arc fault circuit interrupter (AFCI)	○ [1]					
General data	Dimensions (W / H / D)	625 / 465 / 241 mm					
	Weight	29.5 kg					
	Operating temperature range	-25 °C ... +60 °C					
	Cooling concept	Natural convection					
	Degree of protection (as per IEC 60529)	IP66					
	Max. relative humidity	100 %					
	Max. operating altitude	4000 m					
Features	User interface	LED & App					
	BMS interface	CAN					
	Smart meter interface	RS485					
	Communication interfaces	Dongle: WiFi (2.4 GHz) / LAN (100 Mbps) Inverter: RS485 (ModBus RTU), LAN (100 Mbps, Modbus TCP only)					
	Digital output (dry contact) / No. of outputs	● / 2					
	Digital input (dry contact) / No. of inputs	● / 4					
	Integrated power control / export power control	● / ●					

● standard features / ○ optional features / - not available

[1] AFCI functionality released in April 2025, please confirm version with Solplanet's sales staff before purchase.

Three phase hybrid inverters 15 to 30 kW

ASW TH Series



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

Optimal performance

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

Safe & reliable

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

User-friendly

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

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

● standard features / O optional features / - not available

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

ASW A-S Series



Models:

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

Safe & reliable

- Isolated topology, safe and reliable low voltage system
- 10 years warranty

Easy-to-install

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

User-friendly

- Low working tempera-ture down to -15°C
- LCD display screen, intuitive setup and status monitoring
- Smart setup, commis-sioning and monitoring via Solplanet App

Efficient & intelligent

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

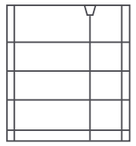
Technical Datasheet

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

Energy Storage Batteries

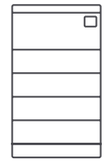
Store each energy

HIGH VOLTAGE BATTERY



Ai-HB G2 Pro SERIES
Ai-HB Pro 075A / 100A / 125A / 150A / 175A / 200A

Ai-HB G2 SERIES
Ai-HB 075A / 100A / 125A / 150A / 175A / 200A

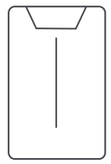


Ai-HB SERIES
Ai-HB 2.56LG

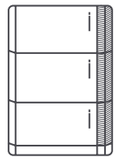
LOW VOLTAGE BATTERY



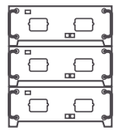
Ai-LB SERIES
Ai-LB 5K / 10K



Ai-LB Pro SERIES
Ai-LB 5K / 10K Pro



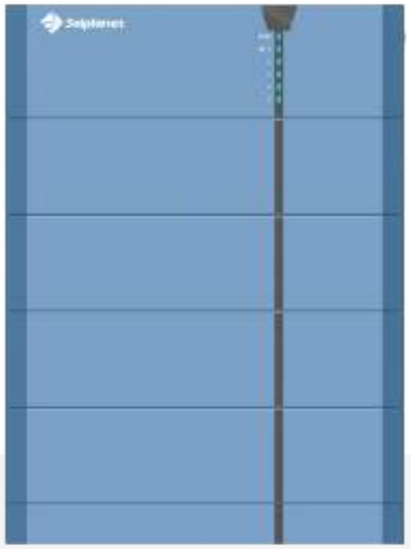
Ai-LB-G3 SERIES
ASW5120-LB-G3



Ai-LB-E Series
ASW5120-LB-E

High Voltage Battery 7.5 to 20 kWh

Ai-HB G2 Pro Series



Models:

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

Optimal performance

- Up to 1C charge / discharge rate
- Stackable and expandable up to 81.92 kWh (supporting 8 modules per unit, 4 units in parallel)
- IP65 rated design for indoor and outdoor use
- Multi-use applications: self-consumption, time of use tariffs, customisation

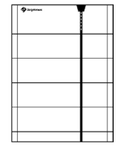
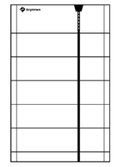
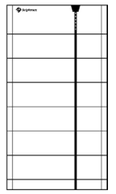
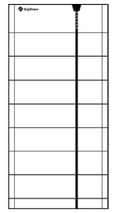
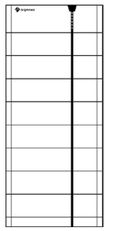
Safe & reliable

- VDE-compliant with enhanced protection
- Smarter and safer battery management system for precise diagnostics
- LFP safe technology with long lifespan
- Built-in emergency fire suppression module

User-friendly

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

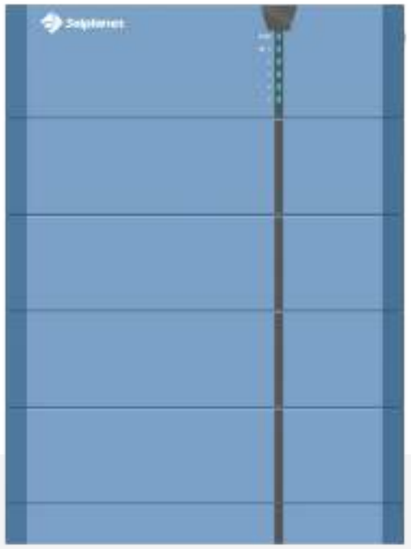
Technical Datasheet

		Ai-HB Pro 075A	Ai-HB Pro 100A	Ai-HB Pro 125A	Ai-HB Pro 150A	Ai-HB Pro 175A	Ai-HB Pro 200A
System Data	Battery designation						
	Battery module	HB051050B					
	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]	7.29 kWh	9.72 kWh	12.16 kWh	14.59 kWh	17.02 kWh	19.45 kWh
	Nominal voltage	153.6 V	204.8 V	256.0 V	307.2 V	358.4 V	409.6 V
	Operating voltage range	120 V ~ 175.2 V	160 V ~ 233.6 V	200 V ~ 292 V	240 V~ 350.4 V	280 V ~ 408.8 V	320 V ~ 467.2 V
	Max.charging current	50 A					
	Max.discharging current	50 A					
	Rated charging / discharging power	7.68kW	10.24kW	12.8 kW	15.36 kW	17.92 kW	20.48 kW
	Max.charging power	7.68kW	10.24kW	12.8 kW	15.36 kW	17.92 kW	20.48 kW
	Max.discharging power	7.68kW	10.24kW	12.8 kW	15.36 kW	17.92 kW	20.48 kW
General Data	Dimensions (W / D / H)	540 / 390 / 600 mm	540 / 390 / 730 mm	540 / 390 / 860 mm	540 / 390 / 990 mm	540 / 390 / 1120 mm	540 / 390 / 1250 mm
	Weight	109.0 kg	140.0 kg	171.0 kg	202.0 kg	233.0 kg	264.0 kg
	Battery module weight	31.0 kg					
	Installation location	Indoor / Outdoor					
	Mounting method	Floor mounted					
	Operating temperature range	Charge: 2 °C ~ 58 °C Discharge: -28 °C ~ 58 °C					
	Storage temperature range	-20 °C ~ 45 °C					
	Cooling concept	Natural convection					
	Degree of protection	IP65					
	Relative humidity	5 ~ 95 %, non - condensing					
	Communication	CAN					
	Protection	Charging over-voltage protection, discharging under-voltage protection, over-current protection, over-temperature protection, short-circuit protection, built-in fire suppression, etc					
	Certification	IEC62619 / EN61000 / VDE2510-50 IEC62040 / UN38.3					
	Life cycle[3]	8000 times					
	Round-trip efficiency	≥95%					

1. Nominal energy is defined under the following conditions: cell voltage 2.5~3.65V, 0.5C charge / discharge at +25°C.
2. Usable energy is defined under the following conditions: 95% 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: 90% DOD, 70% EOL, 0.2C charge / discharge at +25°C.

High Voltage Battery 7.5 to 20 kWh

Ai-HB G2 Series



Models:

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

Safety

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

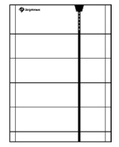
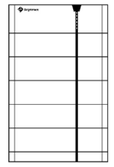
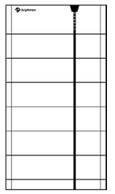
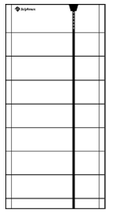
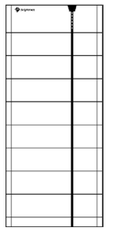
Reliable

- IP65 rated design
- Cell-level monitoring
- LFP safe technology

User-friendly

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

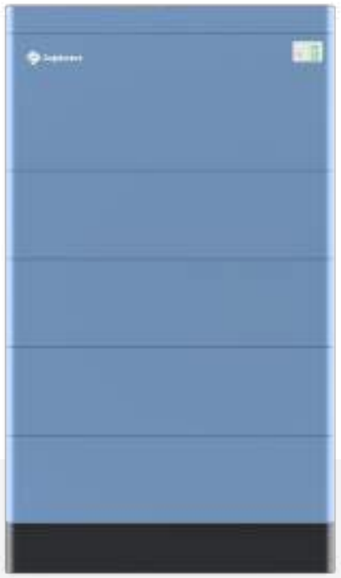
Technical Datasheet

		Ai-HB 075A	Ai-HB 100A	Ai-HB 125A	Ai-HB 150A	Ai-HB 175A	Ai-HB 200A
System Data	Battery designation						
	Battery module	HB051050A					
	Cell type	LiFePO4					
	Module quantity	3	4	5	6	7	8
	Rated capacity	50 Ah					
	Nominal energy[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 range	120 V ~ 175.2 V	160 V ~ 233.6 V	200 V ~ 292 V	240 V ~ 350.4 V	280 V ~ 408.8 V	320 V ~ 467.2 V
	Max.charging current	25 A					
	Max.discharging current	30 A					
	Rated charging / discharging power	3.84kW	5.12 kW	6.40 kW	7.68 kW	8.86 kW	10.24 kW
	Max.charging power	3.84kW	5.12 kW	6.40 kW	7.68 kW	8.86 kW	10.24 kW
	Max.discharging power	4.61 kW	6.14 kW	7.68 kW	9.22 kW	10.75 kW	12.29 kW
General Data	Dimensions (W / D / H)	540 / 390 / 600 mm	540 / 390 / 730 mm	540 / 390 / 860 mm	540 / 390 / 990 mm	540 / 390 / 1120 mm	540 / 390 / 1250 mm
	Weight	106.5 kg	137 kg	167.5 kg	198 kg	228.5 kg	259 kg
	Battery module weight	30.5 kg					
	Installation location	Indoor / Outdoor					
	Mounting method	Floor mounted					
	Operating temperature range	Charge: 0 ~ 50 °C 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	CAN					
	Certification	IEC 62619 / EN 61000 IEC 62040 / UN38.3					
	Life cycle[3]	6000 times					
	Protection	Charging over-voltage protection, discharging under-voltage protection, over-current protection, over-temperature protection, short-circuit protection, built-in fire suppression[4], etc					
	Round-trip efficiency	≥95%					

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

High Voltage Battery 7.5 to 25 kWh

Ai-HB Series



Model:
Ai-HB 2.56LG

Safety

- LFP safe technology
- Modular design with simple cable connections

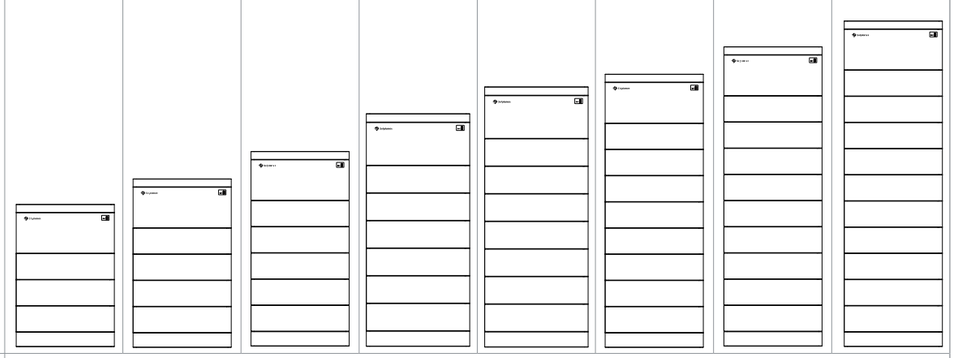
Safe & reliable

- IP65 rated design
- High quality cell inside

User-friendly

- Expandable up to 25.6 kWh (10 modules)
- Multi-use applications: self-consumption, time of use tariffs, customisation
- Smart setup, commissioning and monitoring via Solplanet App

Technical Datasheet

System Data	Battery module	Ai-HB 2.56LG							
	Battery designation								
	Cell type	LiFePO4							
	Module quantity	3	4	5	6	7	8	9	10
	Rated capacity	50Ah							
	Nominal energy[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 range	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	3.84kW	5.12 kW	6.4 kW	7.68 kW	8.86 kW	10.24 kW	11.52kW	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)	600/210/820 mm	600/210/980 mm	600/210/1140 mm	600/210/1300 mm	600/210/1460 mm	600/210/1620 mm	600/210/1780 mm	600/210/1940 mm
	Weight	102.5 kg	129 kg	155.5 kg	182 kg	208.5 kg	235 kg	261.5 kg	288 kg
	Battery module weight	26.5 kg							
	Installation location	Indoor / Outdoor							
	Mounting method	Floor mounted							
	Operating temperature range	Charge: 0°C ~ 55 °C 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 IEC 62040 / UN38.3							
	Life cycle[3]	6000 times							
	Round-trip efficiency	≥95%							

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

Low Voltage Battery 5 to 10 kWh

Ai-LB Series



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

Safety

- LFP safe technology

Safe & reliable

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

User-friendly

- Multi-use applications: self-consumption, time of use tariffs, customisation
- Smart setup, commissioning and monitoring via Solplanet App

Technical Datasheet

		Ai-LB 5K	Ai-LB 10K
System Data	Cell type	LiFePO4	
	Battery module	LB51100A	
	Module number	1	2
	Rated capacity	100 Ah	200 Ah
	Nominal energy[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 Mounted	Floor Mounted / Wall Mounted
	Operating temperature range	Charge: 0°C ~ 55°C 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 44.8~57.6V, 0.5C charge & discharge at +25°C.
2. Usable energy is defined under the following conditions: 0.5C charge & discharge at +25°C, 90% DOD.
3. Life cycle is defined under the following conditions: 0.5C charge & discharge at 25°C, 90% DOD, 70% EOL.

Low Voltage Battery 5 to 10 kWh

Ai-LB Pro Series



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

Efficient & 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
- Smart setup, commissioning and monitoring via Solplanet App

Safe & reliable

- LFP safe technology
- High quality cell inside
- IP65 rated design for indoor and outdoor use

Widely Applicable

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

User-Friendly

- Elegant hidden cable connection
- Compact and lightweight design
- Floor/wall mounted, stackable design, easy to install with standard 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	60A / 100A	120A / 120A
	Rated charging/discharging power	3.07 kW	6.14 kW
	Max. charging / discharging power	3.07 kW / 5.12 kW	6.14 kW / 6.14 kW
General Data	Dimensions(W/D/H)	460 / 165 / 652 mm	550 / 165 / 867 mm
	Weight	50 kg	94 kg
	Installation location	indoor / outdoor	
	Mounting method	Floor mounted / Wall mounted	
	Operating temperature range	Charging: -5°C ~ 55°C 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 44~58.4V, 0.5C charge & discharge at +25°C.
2. Usable energy is defined under the following conditions: 0.5C charge & discharge at +25°C, 90% DOD.
3. Life cycle is defined under the following conditions: 0.5C charge & discharge at 25°C, 90% DOD, 70% EOL.

Low Voltage Battery 5 to 20 kWh

Ai-LB-G3 Series



Models:
ASW5120-LB-G3

Optimal performance

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

Safe & reliable

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

User-friendly

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

Technical Datasheet

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

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

Low Voltage Battery 5.12kWh

Ai-LB-E Series



Models:
ASW5120-LB-E

Optimal performance

- LFP safe technnology, long cyclelife, high efficiency and high power density
- Supports up to 1C charge / discharge rate with short-term 2C overload capability
- Cell level monitoring and balancing

Safe & reliable

- Smarter and safer battery management system for precise diagnostics
- Provides complete protection to keep battery healthy and safe
- Designed in accordance with global safety standards

User-friendly

- Stackable and expandable up to 163.48 kWh (supporting 8 modules per unit, 4 units in parallel)
- Streamlined design for easier handling
- Various mounting methods: wall-mounted, floor-standing, and racked

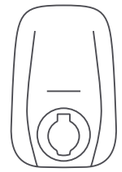
Technical Datasheet

System Data	Battery module	ASW5120-LB-E
	Cell type	LiFePO4
	Rated capacity	100 Ah ≥ 100 Ah
	Rated energy[1]	5.12 kWh
	Usable energy[2]	4.6 kWh
	Nominal battery voltage	51.2 V
	Cell voltage range	2.5 ~ 3.65 V
	Battery voltage range	43.2 V - 57.6 V
	Recommended charge / discharge current	60 A
	Peak discharge current	200 A @ 3 s
	Max. charge / discharge current	100 A / 100 A
	Max. charge / discharge power	5.12 kW
	Peak discharge power	10.24 kW @ 3 s
General Data	Dimensions (W / D / H)	390 / 500 / 155 mm
	Weight	43.0 kg
	Installation location	Indoor
	Mounting method	Floor mounted / Wall mounted / Rack mounted
	Operating temperature range	Charge: 2°C ~ 58°C Discharge: -18°C ~ 58°C
	Storage temperature range	-20°C ~ 45°C
	Cooling concept	Natural convection
	Protective class	II
	Degree of protection	IP20
	Relative humidity	0%~95%, non-condensing
	Max. operating altitude	3000 m (> 2000 m derating)
	Scalability	Max. 32 sets in parallel
	Communication	CAN
	Certification	IEC62619 / EMC / UN38.3
	Life cycle[3]	6000 times
	Round-trip efficiency	≥95%
	Standby power	≤ 1 W

1. Nominal energy is defined under the following conditions: battery voltage 43.2 V ~ 57.6 V, 0.2C charge / discharge at +25°C.
2. Usable energy is defined under the following conditions: 90% DOD, 0.2C charge / discharge at +25°C.
3. Life cycle is defined under the following conditions: 80% DOD, 70% EOL, 0.2C 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

- Easy-to-install with standard tools
- Cable entry on the front or rear of the housing
- Quick set-up via Blue-tooth and APP

Safe & reliable

- IP65 enclosure suitable for indoor & outdoor use
- IK10 protection rating
- TÜV IEC 61851-1 & CE compliant

Smart & Eco-friendly

- Solar Eco Mode & Automatic phase switching
- Intelligent App for remote control and monitoring
- Dynamic load balancing

User-Friendly

- Remote update via APP
- Lock / unlock the charger via APP
- Integrated RFID card reader & NFC

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					
	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

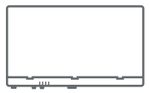
Solplanet Cloud and App



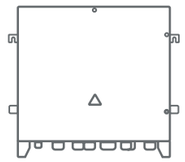
COM STICK SERIES

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

Ai-Logger 2000

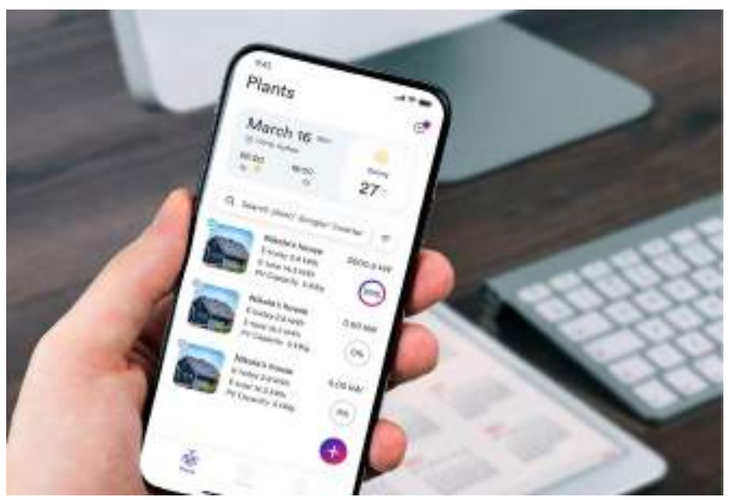


Ai-AMU 2000



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 ~ 9V	5 ~ 12V
	Power Consumption		Typical 2 W, Max. 5 W	
Mechanical	Dimensions (W x H x D)		51 / 112 / 27 mm	50 / 34 / 170 mm
	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 LTE-TDD:B38/B40/B41 GSM:GSM850/EGSMB900/DCS1800/PCS1900
	Wi-Fi Operation Mode	AP
	Supported standards & frequencies	802.11b/g/n (2.412G ~ 2.484G)
	South Communication	RS 485 (USB Type A)
Inter-action	LED	LED Indicator x 2
	APP	Solplanet APP
Environment	Operating Temperature Range	-40°C ~ 60°C (-40°F ~ 140°F)
	Storage Temperature	-40°C ~ 70°C (-40°F ~ 158°F)
	Relative Humidity (Non-condensing)	5% ~ 95%
	Max. Operating Altitude	4,000 m (13,123 ft.)
Elec-trical	DC Power Supply	5 ~ 12V
	Power Consumption	Typical 6.5 W, Max. 10 W
Mechanical	Dimensions (W x H x D)	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

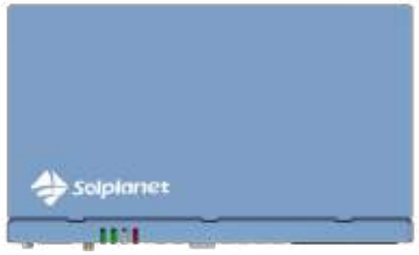
Ai-Logger 1000

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 x H x 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.

Ai-Logger 2000

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



Safer

- Source data desensitization and encrypted communication links

Smarter

- Multi-scenario system control

More efficient

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

More reliable

- Adaptable to extreme application environments with long operational uptime

Technical Datasheet

		Ai-Logger 2000
Device Management	Max. number of devices access to RS485	180
	Max. number of devices access to each port	RS485: 30 ; ABUS:80; LAN / FE:32
Northbound Interface	WAN	2×WAN
	Optical fiber	2×SFP
Southbound Interface	LAN	4×LAN
	Serial port	6×RS485
	AI port	4×AI
	DI port	4×DI
	DO port	4×DO
	PT100 / PT1000	2×PT100 / PT1000
	ABUS	Max. voltage 800 V (±10%)
Power	DC power input	24V / 0.8A DC, 12V / 2A DC
	Consumption	Typical 8 W ; Max. 15 W
	DC power output	12 V / 100 mA
Human Machine Interface(HMI)	Indicator	3×LED ; RUN, SERV, ALM
	Commissioning	Embedded Web
	USB	1×USB 2.0
Environmental Parameter	Operating temperature	-30°C~60°C
	Storage temperature	-40°C~70°C
	Relative humidity	5%~95%, non-condensing
	Altitude	Max. 5000 m
Machanical Parameter	Dimensions (W / H / D)	242 / 142 / 51.5mm (without installation accessories)
	Weight	1.4 kg
	Ingress protection	IP20
	Mounting method	Wall-mounted, rail-mounted, desktop

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

Ai-AMU 2000

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



More flexible and smarter

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

Simpler and easier to use

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

More stable and reliable

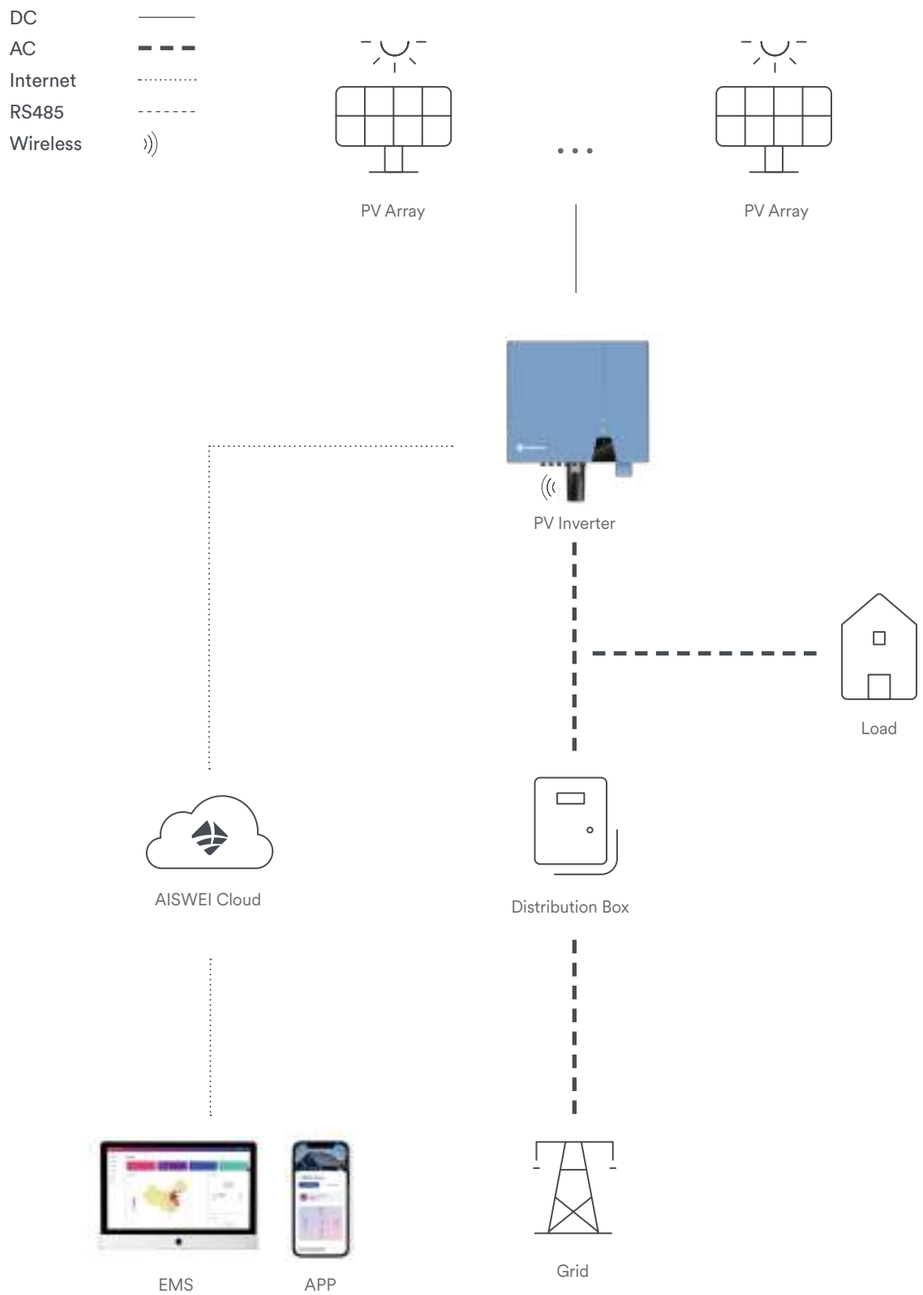
- Industrial-grade cpmponent selection with built-in high-performance surge protectors ensuring safety and reliablity

Technical Datasheet

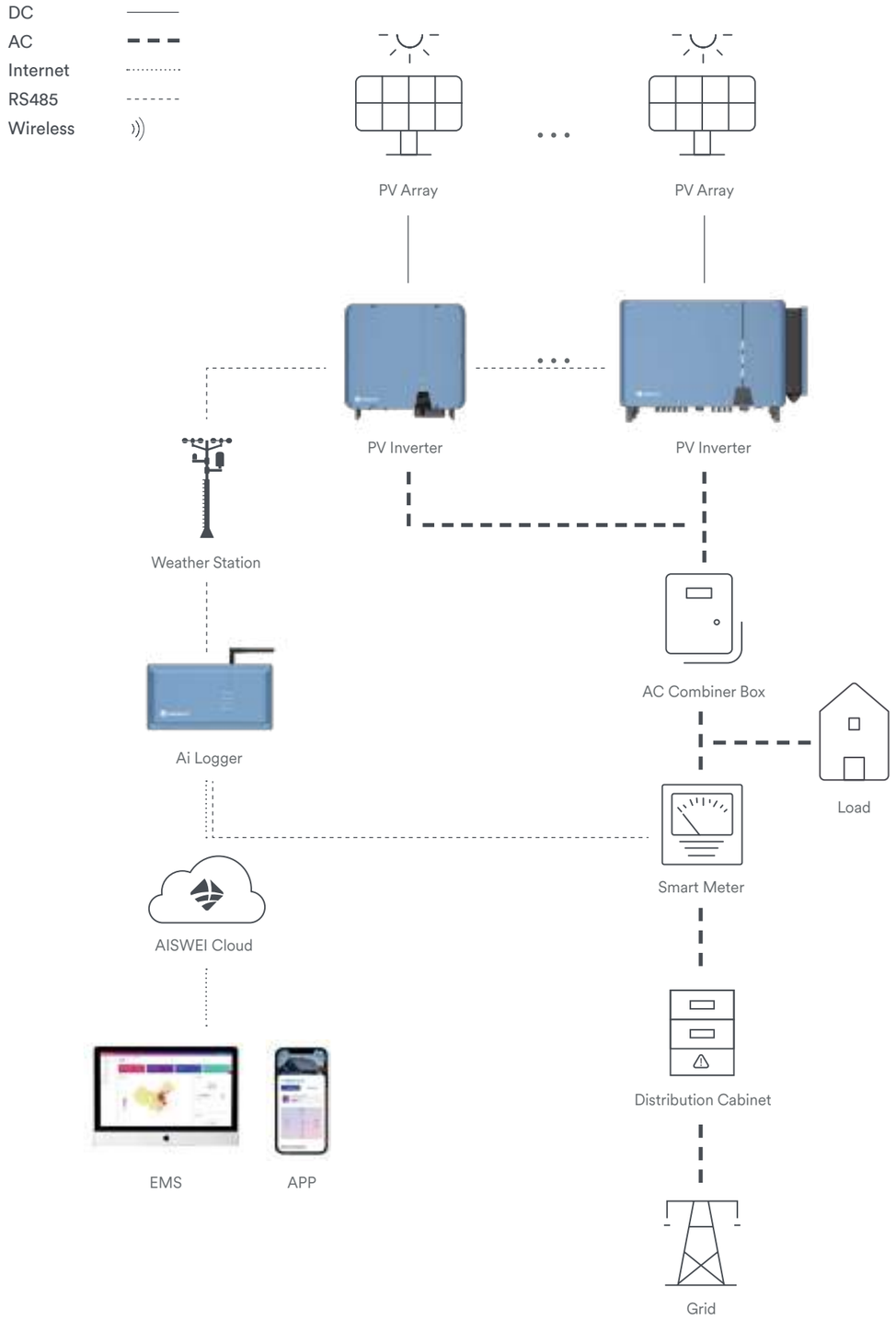
		Ai-AMU 2000
Basic Parameter	Built-in data collector	Ai-Logger 2000
	Ethernet	2×WAN□4×LAN
	RS485	6×RS485
	DI / DO / AI	4×DI / 4×DO / 4×AI
	PT100 / PT1000	2
	Fiber	2×SFP
	USB	1
	ABUS port	2
	Anti-PID module	2
Environmental Parameter	Operating temperature	-30°C~60°C
	Relative humidity	0%~100%, non-condensing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

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

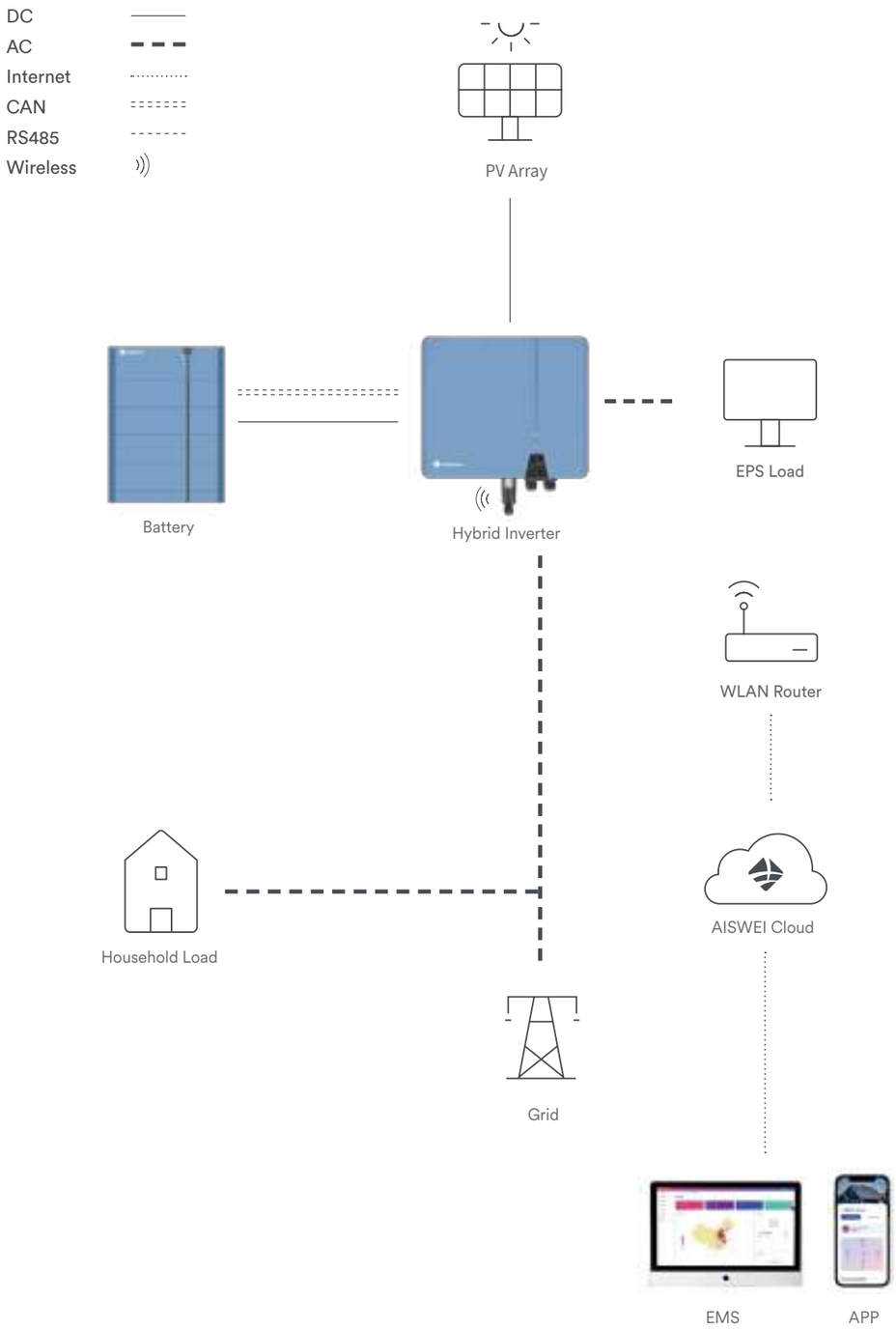
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STORAGE SOLUTION



Internationally accredited laboratory



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

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

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Photo by Raja Tilkian