Solplanet

Solar for everybody

Product brochure

Photo by Nathan Dumlao


Solplanet

Solar for everybody

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 four 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: string inverters, hybrid inverters, batteires, AC EV chargers, and connect & monitoring systems.

Easy-to-install Safe & Reliable User-friendly

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

Easy-to-install

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

Safe & reliable

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

User-friendly

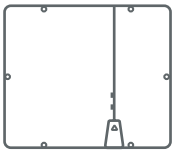
- User friendly app interface
- Online monitoring via Wi-Fi and Solplanet Apps
- Award winning inverter design

Our product range:

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

Single Phase Inverters
Page 8

Three Phase Inverters
Page 20



Hybrid Inverters
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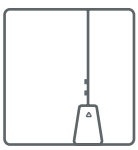
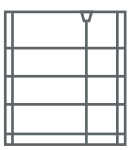


Energy Storage Batteries
Page 60



C&I Energy Storage System
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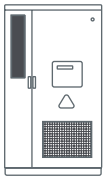

Smart EV Charger
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Connect & Monitor
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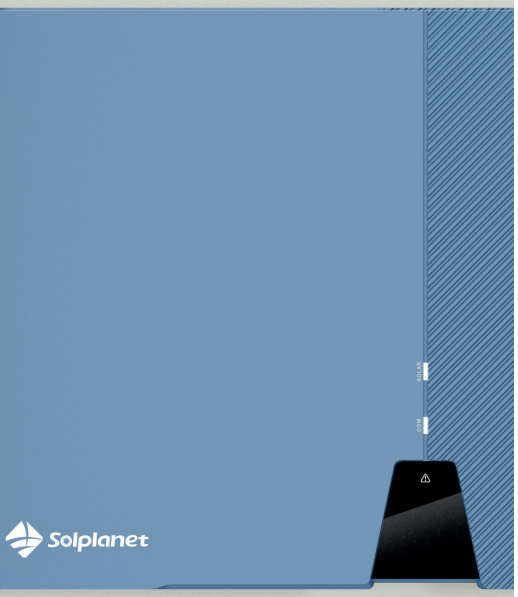
Single phase inverters

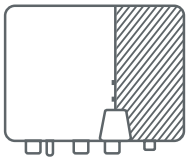
Photo by Liana Mikah



Perfect for home & small business applications

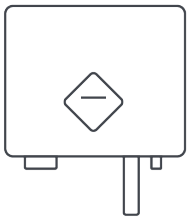
ASW S-S2 SERIES

ASW600S-S2
ASW800S-S2



ASW S-S SERIES

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



ASW S SERIES

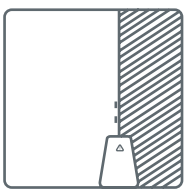
ASW6000-S
ASW8000-S
ASW10000-S

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



Single phase inverters 600W / 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 < 20 dB
- 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	500 V	
	MPP voltage range	35 V - 420 V / 360 V	
	Full load MPP voltage range	65 V - 400V	
	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 - 260 V	
	AC grid frequency / range	50 Hz / 45 Hz - 55 Hz	
	Max. output current (A)	2.6 A	3.5 A
	Adjustable power factor range	0.8 leading - 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	4.0 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	
	Relative humidity	0 - 100 % (Non-condensing)	
	Max. operating altitude	3000 m	
Features	DC connector	Plug-in connector	
	AC connector	Plug-in connector	
	Mounting type	Wall-mount bracket	
	LED indicators (Status / Fault / Communication)	●	
	24/7 monitoring	●	
	Communication interface	●/●/● (RS485[1] / Wi-Fi / LAN)	
	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 - 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 - 290 V			
	AC grid frequency / range	50 Hz / 45 Hz - 55 Hz 60 Hz / 55 Hz - 65 Hz			
	Max. output current	5 A	7.5 A	10 A	13.6 A
	Adjustable power factor range	0.8 leading - 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			
	Relative humidity	0 - 100 % (Non-condensing)			
	Max. operating altitude	3000 m			
Features	DC connector	Plug-in connector			
	AC connector	Plug-in connector			
	Mounting type	Wall-mount bracket			
	LED indicators (Status / Fault / Communication)	●			
	Communication interface	●/●/● (RS485[1] / Wi-Fi / LAN)			
	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] RS485 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	600 V		
	MPP voltage range / rated input voltage	80 V - 560 V / 360 V		
	Min. input voltage	80 V		
	Initial. feed in voltage	100 V		
	Max. operating input current	16 A		
	Max. short circuit current	22.5 A		
	No. of independent MPPT inputs / strings per MPPT input	3 / 1		
Output (AC)	Rated active power	6000 W	8000 W	10000 W
	Rated apparent power	6000 VA	8000 VA	10000 VA
	Max. apparent power	6000 VA	8000 VA	10000 VA
	AC nominal voltage	220 V / 230 V / 240 V		
	AC voltage range	180 V - 295 V		
	AC grid frequency / range	50 Hz / 45 Hz - 55 Hz 60 Hz / 55 Hz - 65 Hz		
	Max. output current	30 A	40 A	50 A
	Adjustable power factor range	0.8 leading - 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	19.0 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		
	Relative humidity	0 - 100 % (Non-condensing)		
	Max. operating altitude	3000 m		
Features	DC connector	Plug-in connector		
	AC connector	Plug-in connector		
	Mounting type	Wall-mount bracket		
	LED indicators (Status / Fault / Communication)	●		
	24/7 monitoring	●		
	Communication interface	●/●/● (RS485[1] / Wi-Fi / LAN)		
	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

[1] 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 - 560 V / 360 V			
	Full load MPP voltage range	200 V - 500 V			
	Min. input voltage	60 V			
	Initial. feed in voltage	100 V			
	Max. operating input current	16 A			
	Max. short circuit current	24 A			
	No. of independent MPPT inputs / strings per MPPT input	1 / 1			
Output (AC)	Rated active power	1000 W	1500 W	2000 W	2500 W
	Rated apparent power	1000 VA	1500 VA	2000 VA	2500 VA
	Max. apparent power	1000 VA	1500 VA	2000 VA	2500 VA
	AC nominal voltage	220 V / 230 V / 240 V			
	AC voltage range	180 V - 295 V			
	AC grid frequency / range	50 Hz / 45 Hz - 55 Hz 60 Hz / 55 Hz - 65 Hz			
	Max. output current	5 A	7.5 A	10 A	12.5 A
	Adjustable power factor range	0.8 leading - 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)	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)	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			
	Relative humidity	0 - 100 % (Non-condensing)			
	Max. operating altitude	4000 m			
Features	DC connector	Plug-in connector			
	AC connector	Plug-in connector			
	Mounting type	Wall-mount bracket			
	LED indicators (Status / Fault / Communication)	●			
	24/7 monitoring	●			
	Communication interface	●/●/● (RS485[1] / Wi-Fi / LAN)			
	Certificates and approvals (more available on request)	IEC 62109-1/2, EN50549-1, C10/C11, VDE-AR-N 4105			

● standard features / O optional features / – not available

[1] RS485 to approved smart meters for export power control applications

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	600 V				
	MPP voltage range / rated input voltage	60 V - 560 V / 360 V				
	Min. input voltage	60 V				
	Initial. feed in voltage	100 V				
	Max. operating input current	16 A				
	Max. short circuit current	24 A				
	No. of independent MPPT inputs / strings per MPPT input	2 / 1				
Output (AC)	Rated active power	3000 W	3680 W	4000 W	5000 W	6000 W
	Rated apparent power	3000 VA	3680 VA	4000 VA	5000 VA	6000 VA
	Max. apparent power	3000 VA	3680 VA	4000 VA	5000 VA	6000 VA
	AC nominal voltage	220 V / 230 V / 240 V				
	AC voltage range	180 V - 295 V				
	AC grid frequency / range	50 Hz / 45 Hz - 55 Hz 60 Hz / 55 Hz - 65 Hz				
	Max. output current	15 A	16 A	20 A	25 A	30 A
	Adjustable power factor range	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				
	Relative humidity	0 - 100 % (Non-condensing)				
	Max. operating altitude	4000 m				
Features	DC connector	Plug-in connector				
	AC connector	Plug-in Connector				
	Mounting type	Wall-mount bracket				
	LED Indicators (Status / Fault / Communication)	●				
	24/7 monitoring	●				
	Communication interface	●/●/● (RS485[1] / Wi-Fi / LAN)				
	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

[1] RS485 to approved smart meters for export power control applications

Three phase inverters

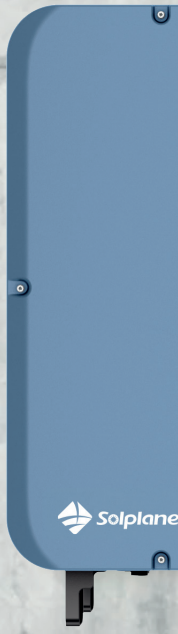
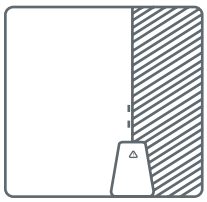
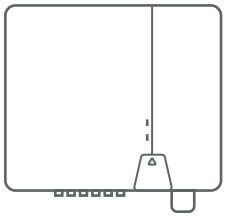


Photo by Paweł Czerwiński

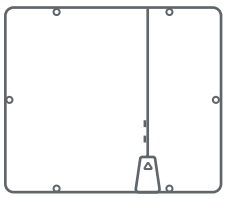
High yield, reliable residential and commercial inverters



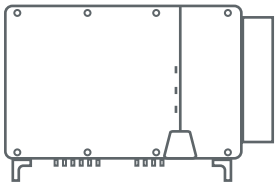
ASW LT-G2 Pro SERIES
ASW3K / 4K / 5K / 6K / 8K / 10K-LT-G2 Pro
ASW12K / 13K / 15K / 17K / 20K-LT-G2 Pro



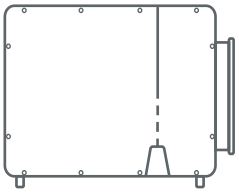
ASW LT-G3 SERIES
ASW25K / 27K / 30K / 33K /
36K / 40K-LT-G3



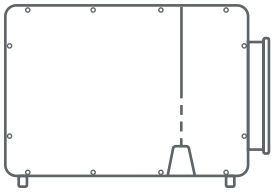
ASW LT-G3 SERIES
ASW45K / 50K / 60K-LT-G3



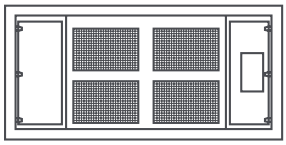
ASW LT SERIES
ASW75K / 80K / 100K / 110K-LT
ASW125K-LT



ASW LT SERIES
ASW150K-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 150 V-1000 V
- 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 Wp STC	15000 Wp STC
	Max. input voltage	1100 V					
	MPP voltage range / rated input voltage	150 V - 1000 V / 630 V					
	Min. input voltage	125 V					
	Initial. feed-in voltage	180 V					
	Max. operating input current	16 A / 16 A				20 A / 16 A	
	Max. short circuit current	25 A / 25 A				30 A / 25 A	
	No. of independent MPPT inputs / strings per MPPT input	2 / A :1 ; B : 1					
Output (AC)	Rated active power	3000 W	4000 W	5000 W	6000 W	8000 W	10000 W
	Rated apparent power	3000 VA	4000 VA	5000 VA	6000 VA	8000 VA	10000 VA
	Max. apparent power	3000 VA	4000 VA	5000 VA	6000 VA	8000 VA	10000 VA
	AC nominal voltage	220 V / 380 V 230 V / 400 V 240 V / 415 V					
	AC voltage range	160 V - 300 V					
	AC grid frequency / range	50 Hz / 45 Hz - 55 Hz 60 Hz / 55 Hz - 65 Hz					
	Max. output current	4.8 A	6.4 A	8.0 A	9.6 A	12.8 A	16 A
	Adjustable power factor range	0.8 leading - 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	16.0 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					
	Relative humidity	0 - 100 % (Non-condensing)					
	Max. operating altitude	3000 m					
Features	DC connector	Plug-in connector					
	AC connector	Plug-in connector					
	Mounting type	Wall-mount bracket					
	LED indicators (Status / Fault / Communication)	●					
	24/7 monitoring	●					
	Communication interface	●/●/● (RS485[1] / Wi-Fi / LAN)					
	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] RS485 to approved smart meters for export power control applications

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 150 V - 1000 V
- 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	19500 Wp STC	22500 Wp STC	25500 Wp STC	30000 Wp STC
	Max. input voltage	1100 V				
	MPP voltage range / rated input voltage	150 V - 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 - 300 V				
	AC grid frequency / range	50 Hz / 45 Hz - 55 Hz 60 Hz / 55 Hz - 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 - 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)	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	17.0 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				
	Relative humidity	0 - 100 % (Non-condensing)				
	Max. operating altitude	3000 m				
Features	DC connector	Plug-in connector				
	AC connector	Plug-in connector				
	Mounting type	Wall-mount bracket				
	LED indicators (Status / Fault / Communication)	●				
	24/7 monitoring	●				
	Communication interface	●/●/● (RS485[1] / Wi-Fi / LAN)				
	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

[1] RS485 to approved smart meters for export power control applications

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 150 V - 1000 V
- ShadeSol - improved generation under non-ideal conditions

Technical Datasheet

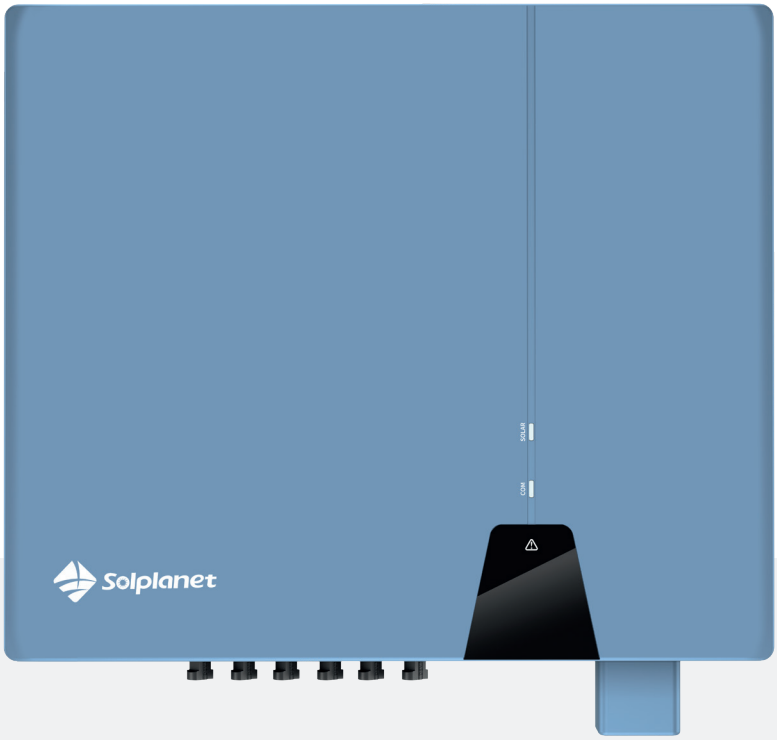
		ASW 8K-LT-G2	ASW 10K-LT-G2	ASW 12K-LT-G2	ASW 15K-LT-G2	ASW 17K-LT-G2	ASW 20K-LT-G2
Input (DC)	Max. PV array power	12000 Wp STC	15000 Wp STC	18000 Wp STC	22500 Wp STC	25500 Wp STC	30000 Wp STC
	Max. input voltage	1100 V					
	MPP voltage range / rated input voltage	150 V - 1000 V / 630 V					
	Min. input voltage	125 V					
	Initial. feed-in voltage	150 V					
	Max. operating input current	26 A / 13 A	26 A / 13 A	26 A / 26 A	26 A / 26 A	26 A / 26 A	26 A / 26 A
	Max. short circuit current	40 A / 20 A	40 A / 20 A	40 A / 40 A	40 A / 40 A	40 A / 40 A	40 A / 40 A
	No. of independent MPPT inputs / strings per MPPT input	2 / A:1;B:1	2 / A:1;B:1	2 / A:2;B:1	2 / A:2;B:1	2 / A:2;B:2	2 / A:2;B:2
Output (AC)	Rated active power	8000 W	10000 W	12000 W	15000 W	17000 W	20000 W
	Rated apparent power	8000 VA	10000 VA	12000 VA	15000 VA	17000 VA	20000 VA
	Max. apparent power	8000 VA	10000 VA	12000 VA	15000 VA	17000 VA	20000 VA
	AC nominal voltage	220 V / 380 V 230 V / 400 V 240 V / 415 V					
	AC voltage range	160 V - 300 V					
	AC grid frequency / range	50 Hz / 45 Hz - 55 Hz 60 Hz / 55 Hz - 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 - 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	16.0 kg		17.0 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					
	Relative humidity	0 - 100 % (Non-condensing)					
	Max. operating altitude	3000 m					
Features	DC connector	Plug-in connector					
	AC connector	Plug-in connector					
	Mounting type	Wall-mount bracket					
	LED indicators (Status / Fault / Communication)	●					
	Communication interface	●/●/● (RS485[1] / Wi-Fi / LAN)					
	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

[1] RS485 to approved smart meters for export power control applications

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 180 V - 1000 V
- 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	32 A / 32 A / 32 A			32 A / 32 A / 40 A		
	Max. short circuit current	48 A / 48 A / 48 A			48 A / 48 A / 60 A		
	No. of independent MPPT inputs / strings per MPPT input	3 / A:2;B:2;C:2			3 / A:2;B:2;C:2		
Output (AC)	Rated active power	25000 W	27000 W	30000 W	33000 W	36000 W	40000 W
	Rated apparent power	25000 VA	27000 VA	30000 VA	33000 VA	36000 VA	40000 VA
	Max. apparent power	25000 VA	27000 VA	30000 VA	33000 VA	36000 VA	40000 VA
	AC nominal voltage	220 V / 380 V 230 V / 400 V 240 V / 415 V					
	AC voltage range	180 V - 305 V / 312 V - 528V					
	AC grid frequency / range	50 Hz / 45 Hz - 55 Hz 60 Hz / 55 Hz - 65 Hz					
	Max. output current	39.9 A	43.0 A	47.8 A	52.6 A	57.4 A	63.8 A
	Adjustable power factor range	0.8 leading - 0.8 lagging					
	Feed-in phases	3 / 3-N-PE					
	Harmonic distortion (THD) at rated output	< 3 %					
Efficiency & Protection	Max. efficiency / European efficiency	98.4 % / 98.2 %					
	DC Switch	●					
	Ground fault monitoring / grid monitoring	● / ●					
	DC reverse polarity protection / AC short circuit protection	● / ●					
	All-pole-sensitive residual-current monitoring unit	●					
	Arc fault circuit interrupter (AFCI)	○					
	Anti-islanding Protection	●					
	Surge protection	● / Type II					
	Protection class (according to IEC 62109-1) / overvoltage category (according to IEC 62109-1)	I / AC: III; DC: II					
General data	Dimensions (W / H / D)	543 / 520 / 235 mm					
	Weight	29.0 kg			30.0 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					
	Relative humidity	0 - 100 % (Non-condensing)					
	Max. operating altitude	3000 m					
Features	DC connector	Plug-in connector					
	AC connector	Plug-in connector					
	Mounting type	Wall-mount bracket					
	LED Indicators (Status / Fault / Communication)	●					
	24/7 monitoring	●					
	Communication interface	●/●/● (RS485[1] / Wi-Fi / LAN)					
	Certificates and approvals (more available on request)	CE, EN50549 ,IEC62109, IEC62116, IEC61727, IEC61000, NB/T 32004					

● standard features / ○ optional features / – not available

[1] RS485 to approved smart meters for export power control applications

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

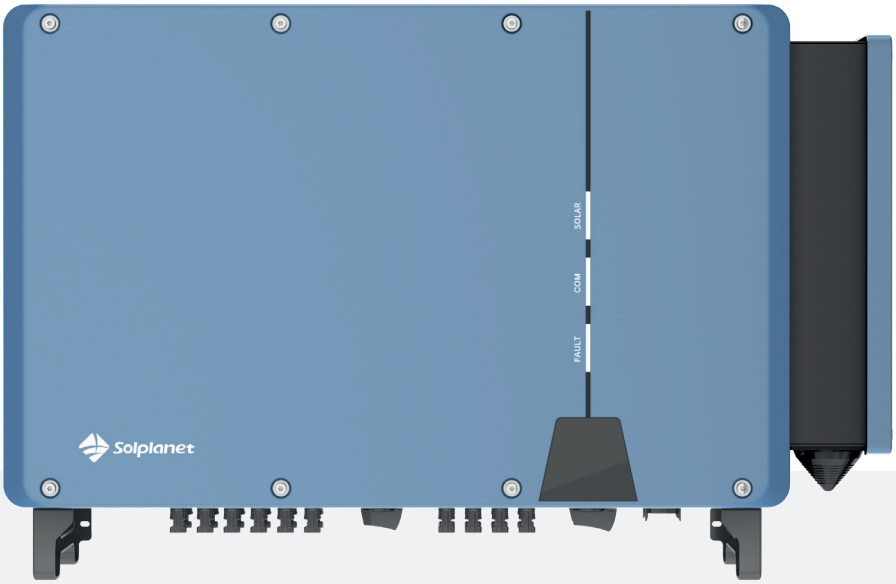
		ASW45K-LT-G3	ASW50K-LT-G3	ASW60K-LT-G3
Input (DC)	Max. PV array power	67500 Wp STC	75000 Wp STC	90000 Wp STC
	Max. input voltage	1100 V		
	MPP voltage range / rated input voltage	200 V - 1000 V / 630 V		
	Min. input voltage	200 V		
	Initial. feed-in voltage	250 V		
	Max. operating input current	40 A / 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 - 305 V / 312 V - 528 V		
	AC grid frequency / range	50 Hz / 45 Hz - 55 Hz 60 Hz / 55 Hz - 65 Hz		
	Max. output current	75.2 A	83.6 A	95.3 A
	Adjustable power factor range	0.8 leading - 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)	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		
	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		
	Relative humidity	0 - 100 % (Non-condensing)		
	Max. operating altitude	4000 m		
Features	DC connector	Plug-in connector		
	AC connector	OT/DT connector		
	Mounting type	Wall-mount bracket		
	LED indicators (Status / Fault / Communication)	●		
	24/7 monitoring	●		
	Communication interface	●/●/● (RS485[1] / Wi-Fi / LAN)		
	Certificates and approvals (more available on request)	CE, IEC 62109-1/2, IEC 61727,IEC 62116,IEC61683,G98/G99,VDE4110,VDE4105,EN50549-1/2		

● standard features / O optional features / – not available

[1] RS485 to approved smart meters for export power control applications

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

User-friendly

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

Technical Datasheet

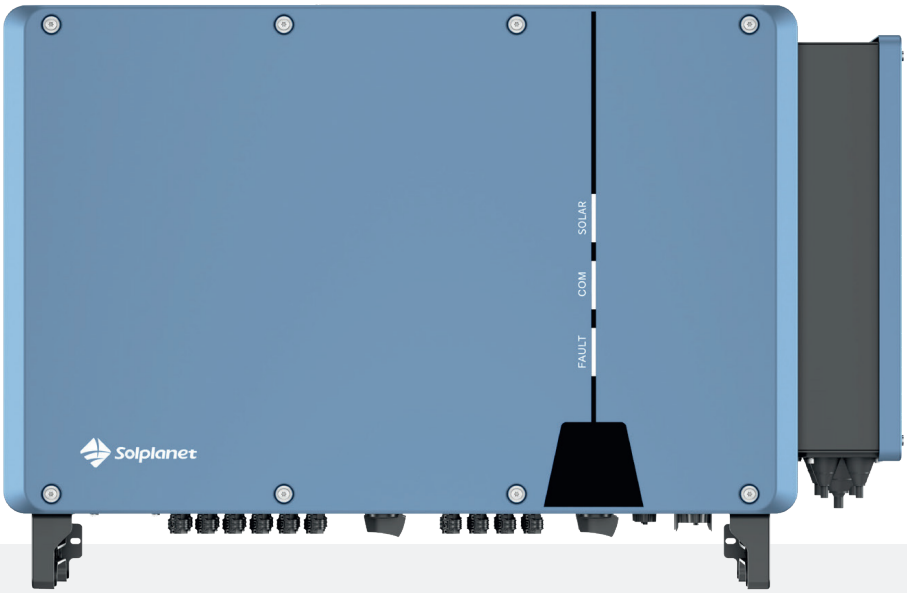
		ASW 75K-LT	ASW 80K-LT	ASW 100K-LT	ASW 110K-LT
Input (DC)	Max. PV array power	112500 Wp STC	120000 Wp STC	150000 Wp STC	165000 Wp STC
	Max. input voltage	1100 V			
	MPP voltage range / rated input voltage	200 V - 1000 V / 630 V			
	Min. input voltage	200 V			
	Initial. feed-in voltage	250 V			
	Max. operating input current	32 A			
	Max. short circuit current	48 A			
	No. of independent MPPT inputs / strings per MPPT input	8 / 2	8 / 2	10 / 2	10 / 2
Output (AC)	Rated active power	75000 W	80000 W	100000 W	110000 W
	Rated appearant power	75000 VA	80000 VA	100000 VA	110000 VA
	Max. apparent power	75000 W	88000 W	110000 W	121000 W
	AC nominal voltage	220 V / 380 V 230 V / 400 V			
	AC voltage range	312 V - 528 V			
	AC grid frequency / range	50 Hz / 45 Hz - 55 Hz 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 - 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	86.0 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			
	Relative humidity	0 - 100 % (Non-condensing)			
	Max. operating altitude	4000 m			
Features	DC connector	Plug-in connector			
	AC connector	OT/DT Terminal (Max.240mm²)			
	LED indicators (Status / Fault / Communication)	●			
	24/7 moitoring	●			
	Communication interface	●/●/● (RS485[1] / Wi-Fi / LAN)			
	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 / - not available

[1] RS485 to approved smart meters for export power control applications

Three phase inverters 125 kW

ASW LT Series



Model:
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) (optional)
- Quick and easy-to-install with standard tools

Technical Datasheet

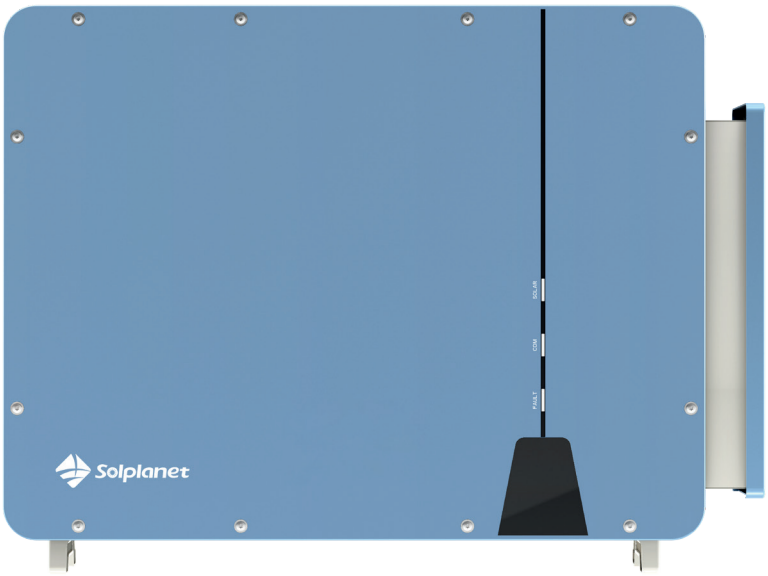
		ASW 125K-LT
Input (DC)	Max. PV array power	187500 Wp STC
	Max. input voltage	1100 V
	MPP voltage range / rated input voltage	200 V - 1000 V / 630 V
	Min. input voltage	200 V
	Initial. feed-in voltage	250 V
	Max. operating input current	10 * 40 A
	Max. short circuit current	10 * 50 A
	No. of independent 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	312 V - 528 V
	AC grid frequency / range	50 Hz / 45 Hz - 55 Hz 60 Hz / 55 Hz - 65 Hz
	Nominal output current	190.0 A
	Max. output current	209.0 A
	Adjustable power factor range	0.8 leading - 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
	Relative humidity	0 - 100 % (Non-condensing)
	Max. operating altitude	4000 m
Features	DC connector	Plug-in connector
	AC connector	OT/DT connector
	LED indicators (Status / Fault / Communication)	●
	Communication interface	●/●/● (RS485[1] / Wi-Fi / LAN)
	Certificates and approvals (more available on request)	CE, IEC 62109-1/2, IEC 63027, IEC61727, EN50549

● standard features / O optional features / - not available

[1] RS485 to approved smart meters for export power control applications

Three Phases Inverters 150 kW

ASW LT Series



Models:
ASW150K-LT

Higher Yields

- 48 A per MPPT, ideal for bifacial and large area PV modules
- Smart PID recovery for higher yields
- ShadeSol - improved generation under non-ideal conditions
- ABUS to enhance Communciation stability and reduce cable costs (optional)

Smart O&M

- Smart I-V Curve tracing for easy diagnostics
- String-level management
- Type I+II SPD surge protection for DC & AC with replaceable units
- Integrated DC switch, automatically cuts off the fault

User-friendly

- IP66 and C5 rated design for indoor and outdoor use
- DC connector and AC terminal temperature detection
- Intelligent arc fault detection (AFCI)
- Supports Y-connection
- Smart setup, commissioning and monitoring via Solplanet App

Technical Datasheet

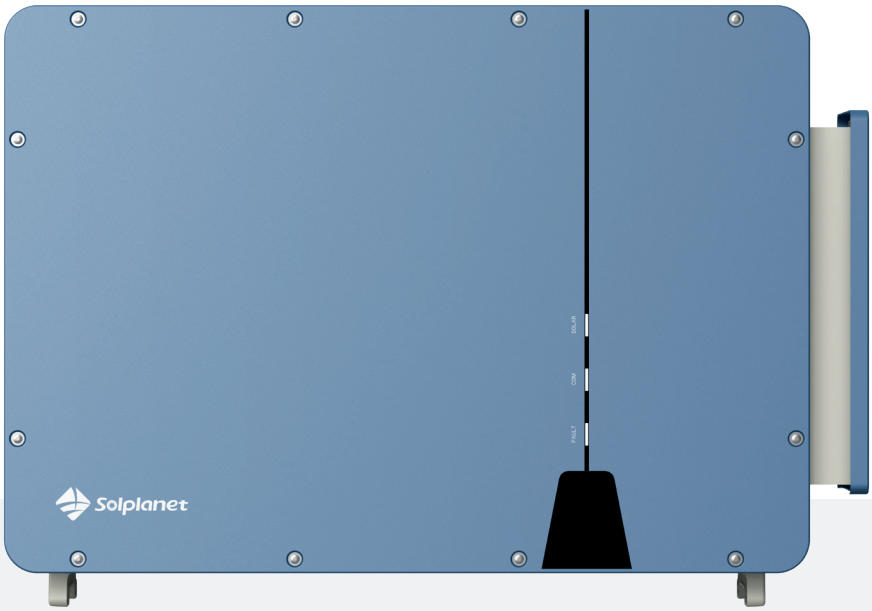
		ASW 150K-LT
Input (DC)	Max. input voltage	1100 V
	MPP voltage range / rated input voltage	200 V - 1000 V / 630 V
	Min. input voltage	200 V
	Initial. feed-in voltage	250 V
	Max. operating input current	8*48 A
	Max. short circuit current	8*60 A
	No. of independent MPPT inputs / strings per MPPT input	8 / 3
Output (AC)	Rated active power	150000 W
	Rated apparent power	150000 VA
	Max. apparent power	150000 VA
	AC nominal voltage	380 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
	Nominal output current	227.9 A
	Max. output current	250.7 A
	Adjustable power factor range	0.8 leading - 0.8 lagging
	Feed-in phases	3 / 3-N-PE
	Harmonic distortion (THD) at rated output	≤ 3 %
Efficiency & Protection	Max. efficiency / European efficiency	99.0 % / 98.6 %
	DC switch	●
	Ground fault monitoring	● / ●
	Grid monitoring	● / ●
	All-pole-sensitive residual-current monitoring unit	●
	Anti-islanding protection	●
	DC surge protection	Type II (TypeI+II ○)
	AC surge protection	Type II (TypeI+II ○)
	Arc Fault circuit interrupter (AFCI)	●
	PID recovery	○
	Protection class (according to IEC 62109-1) / Overvoltage category (according to IEC 62109-1)	I / AC: III; DC: II
	Sunspec protocol (RTU)	●
General data	Dimensions (W / H / D)	1010 / 757 / 362 mm
	Weight	101.0 kg
	Operating temperature range	-30 °C ~ 60 °C
	Self-consumption (at night)	< 3 W
	Topology	Non-isolated
	Cooling concept	Active cooling
	Degree of protection (according to IEC 60529)	IP66
	Relative humidity	0 - 100 % (Non-condensing)
	Max. operating altitude	4000 m
Features	DC connector	Plug-in connector
	AC connector	OT/DT connector
	LED indicators (Status / Fault / Communication)	●
	Communication interface	● / ● / ○ (RS485[1] / Wi-Fi / ABUS)
	Certificates and approvals (more available on request)	CE, IEC 62109-1/2, IEC 63027, IEC 61727, EN 50549, IEC 62116, IEC 61683, IEC 61000

● standard features / ○ optional features / - not available

[1] RS485 to approved smart meters for export power control applications

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	ASW333K-HT	ASW350K-HT	ASW360K-HT
Input (DC)	Max. input voltage	1500 V			
	MPP voltage range / rated input voltage	500 V - 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 @ 40 °C	363000 VA @ 40 °C
				325000 VA @ 50 °C	328000 VA @ 50 °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 - 0.8 lagging			
	Feed-in phases	3 / 3-PE			
	THD	< 3 %			
Effi-ciency	Max. efficiency / European efficiency	99.01 % / 98.8 %			
Efficiency & Protection	Smart DC switch	●			
	AC / DC temperature 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 (> 4000 m 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 60068, EN 50549-2			

● standard features / O optional features / - not available

Transformer station 3000 to 9000k

ASW MT Series

Models:
ASW3000K-MT
ASW6000K-MT
ASW9000K-MT

High Integration

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

Flexible

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

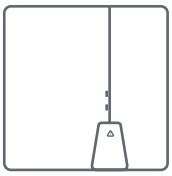
- Components compliance with requirements of standards
- Excellent protection design ensures working in harsh enviroments

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 ○: C5-M	●: C4-H ○: C5-M	●: C4-H ○: C5-M
General Data	Dimensions (W / D / H)	6,058 / 2,438 / 2,896 mm	6,058 / 2,438 / 2,896 mm	6,058 / 2,438 / 2,896 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 ○: > 2000 m	●: 2000 m ○: > 2000 m	●: 2000 m ○: > 2000 m
	LV & MV room cooling	Smart cooling	Smart cooling	Smart cooling
Communication interface	Modbus-RTU	●	●	●
	Ethernet	●	●	●
	Optical fiber	○	○	○
Features	MV surge arrester for transformer	○	○	○
	2 kVA UPS	○	○	○
	Auxiliary transformer 40 kVA	○	○	○
	Operating temperature range	-30 °C ~ 60 °C (Optional)	-30 °C ~ 60 °C (Optional)	-30 °C ~ 60 °C (Optional)
Compli-ance	Certificates and approvals (more available on request)	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

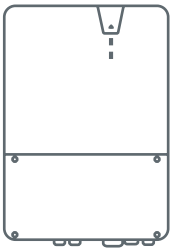
● standard features / ○ optional features / - not available

Energy Storage Inverters

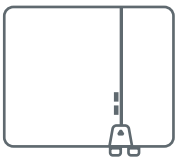
Perfect for home & small commercial and industrial applications



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

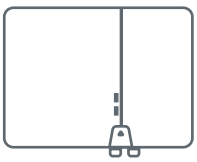


ASW SH SERIES
ASW008K / 010K-SH



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

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



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

ASW H-T3-DG SERIES
ASW08k / 10k / 12k / 15kH-T3

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 - 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 - 60 V				
	Max. charge / discharge power	5000 W / 5000 W				
	Max. charge / discharge current	100 A / 100A				
	Battery type	LiFePO4				
	Compatible Battery	Aiswei Ai-LB series [3]				
AC output	AC voltage range / Nominal AC voltage	180 V - 280 V / 220, 230 V				
	Rated AC grid frequency	50 Hz / 60 Hz				
	AC grid frequency range	45 Hz - 55 Hz / 55 Hz - 65 Hz				
	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	220 V / 230 V				
	Rated apparent power	6000 VA				
	Max. input apparent power from grid	6000 VA				
	Rated input current from grid	26.1 A				
	Max. input current from grid	27.3 A				
EPS output	Nominal output voltage	220 V / 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)	21.7 A				
	Max. output current	21.7 A				
	Max. switch time	≤ 10 ms				
	Output THDi (@ Linear load)	< 3 %				
Effi-ciency	MPPT efficiency	99.9 %				
	European efficiency / Max. efficiency	97.0 % / 97.6 %				
	Max. battery to load efficiency	94.7 %				
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 - 0.8 lagging				
	Dimensions (W / D / H)	483 / 193.5 / 455 mm				
	Device weight	25.0 kg				
	Operating temperature range	-25 °C ~ 60 °C				
	Noise emissions (typical)	30 dB				
	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				
	Relative humidity	100 %				
	Max. operating altitude	4000 m (> 3000 m derating)				
Features	HMI	LED, App				
	Communication with BMS	CAN				
	Communication with meter	RS485				
	Communication with portal	Wi-Fi stick				
	Other communication	DRM				
	Integrated power control / Zero export control	● / ●				

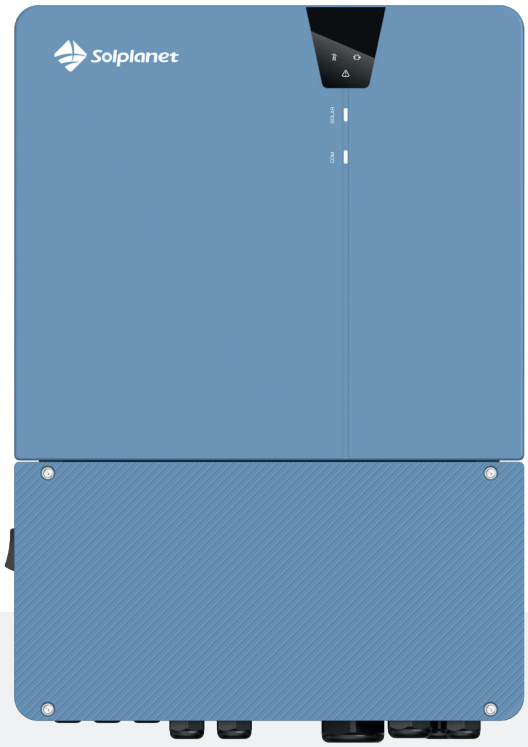
● standard features / ○ optional features / – not available

[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 V - 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 - 60V	
	Max. charge / discharge power	8000 W	10000 W
	Max. charge / discharge current	190 A	210 A
	Battery type	LiFePO4 / Lead-acid	
AC output	AC voltage range / Nominal AC voltage	154 V - 276 V /220 V / 230 V / 240 V L/N	
	Rated AC grid frequency	50 Hz / 60 Hz	
	AC grid frequency range	45 Hz - 55 Hz / 55 Hz - 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 - 0.8 lagging	
AC input	Nominal AC voltage	220 V / 230 V / 240 V 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 V / 230 V / 240 V 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 V / 230 V / 240 V L/N	
	Rated AC frequency	50 Hz / 60 Hz	
Effi-ciency	MPPT efficiency	99.9 %	
	European efficiency / Max. efficiency	97.0 % / 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 / D / H)	484 / 230 / 679 mm	
	Weight	34.5 kg	
	Operating temperature range	-25 °C ~ 60 °C	
	Cooling concept	Smart cooling	
	Degree of protection (as per IEC 60529)	IP66	
	Relative humidity	100 %	
	Max. operating altitude	3000 m	
Features	HMI	LED, App	
	BMS interface	CAN	
	Communication interfaces	Dongle: Wi-Fi (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 :
ASW05kH-T2
ASW06kH-T2
ASW08kH-T2
ASW10kH-T2
ASW12kH-T2

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]
- ShadeSol shadow management

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 [5]				
	MPP voltage range / rated input voltage	150 V - 950 V / 630 V		200 V - 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 - 600 V [5]				
	Max. charge / discharge power	5000 W	6000 W	8000 W	10000 W	12000 W
	Max. charge / discharge current	30 A [5]				
	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 - 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 Hz - 55 Hz / 55 Hz - 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 - 0.8 lagging				
	Harmonics THDi	< 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 %				
	European 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)	O [2]				
General data	Dimensions (W / D / H)	545 / 205 / 465 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				
	Relative humidity	100 %				
	Max. operating altitude	4000 m				
Features	HMI	LED, App				
	BMS interface	CAN				
	Smart meter interface	RS485				
	Communication interfaces	Dongle: Wi-Fi (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	● / ●				
	Certificates (more available upon request)	AS / NZS 4777.2, TOR Stromerzeugungsanlagen Typ A, C10 / 11, TR 3.3.1, FD C11 - 519 - 11, EN 50549 - 1, EN 61000 - 6 - 1, EN 61000-6-2, EN 61000 - 6 - 3, EN 61000 - 6 - 4, VDE-AR-N 4105, IEC 60068 - 2 - x, IEC 61683. IEC 61727, IEC 62116, IEC 63027, NTS Type A. RD 647, UNE 217001, UNE 217002, NA / EEA-NE7, G99 - 1, PORTARIA Nº 140				

● standard features / O 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 150 V - 950 V, pending subsequent certificate updates.

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

[5] When connecting to Solplanet's Ai-HB G2 Series batteries (with only 5 kWh, i.e. two modules), limitations as below apply:

1. The maximum open circuit voltage of PV shall not exceed 750 V;
2. The battery nominal voltage range is reduced to 102.4 V for the particular operation;
3. The maximum charging and discharging current depends on the operating point and is within the range greater than 25 A, less than 30 A.

Three phase hybrid inverters 8 to 12 kW

ASW H-T3 Series

Models:
ASW08kH-T3
ASW10kH-T3
ASW12kH-T3

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]
- ShadeSol shadow management

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

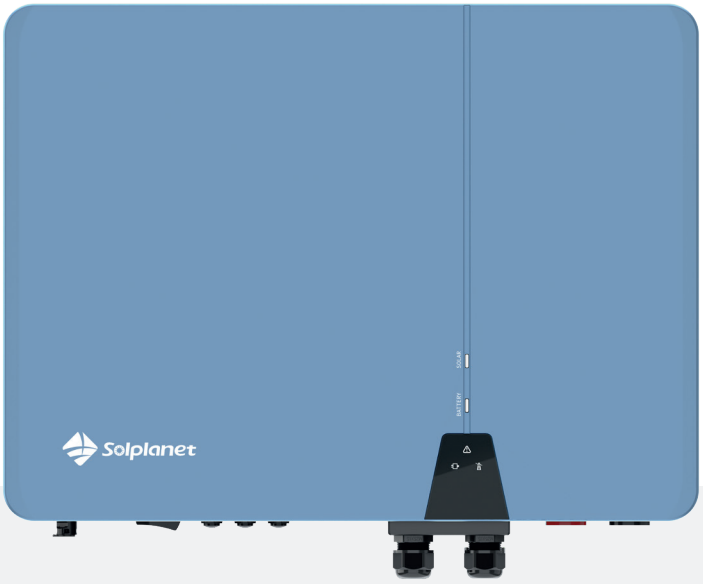
Technical Datasheet		ASW08kH-T3	ASW10kH-T3	ASW12kH-T3
PV input	Max. PV array power	12000 Wp	15000 Wp	18000 Wp
	Max. input voltage	1100 V [5]		
	MPP voltage range / rated input voltage	200 V - 950 V / 630 V [3]		
	Min. input voltage / start voltage	60 V / 180 V		
	No. of independent MPPT trackers / strings per MPPT input	3 / 1		
	Max. input current / Max. power per MPP tracker	16 A / 10000 W		
	Max. short-circuit current per MPP tracker	24 A		
Battery input	Battery voltage range	120 V - 600 V [5]		
	Max. charge / discharge power	8000 W	10000 W	12000 W
	Max. charge / discharge current	30 A [5]		
	Battery type	LiFePO4		
AC input	Rated grid voltage	3/N/PE / 380 V / 400 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	220 V - 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 Hz - 55 Hz / 55 Hz - 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 - 0.8 lagging		
	Harmonics THDi	< 3 % (of nominal power)		
EPS output	Nominal output voltage	3/N/PE, 220 V / 380 V; 230 V / 400 V; 240 V / 415 V		
	Nominal output frequency	50 Hz / 60 Hz		
	Rated apparent power	8000 VA	10000 VA	12000 VA
	Rated current (@400 V)	11.6 A	14.5 A	17.4 A
	Max. current (@400 V, continuous on-grid / off-grid)	23.2 A / 11.6 A	29.0 A / 14.5 A	34.8 A / 17.4 A
	Max. power on each phase (@400 V, continuous on-grid / off-grid)	5333 W / 2667 W	6667 W / 3333 W	8000 W / 4000 W
	Peak output apparent power (@400 V, continuous on-grid / off-grid up to 10s)	16000 VA / 16000 VA	20000 VA / 20000 VA	24000 VA / 24000 VA
	Max. switch time	< 10 ms		
	Output THDv (@ Linear load)	2 %		
Efficiency	MPPT efficiency	99.9 %		
	European 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)	O [2]		
General data	Dimensions (W / D / H)	545 / 205 / 465 mm		
	Weight	26.0 kg		
	Operating temperature range	-25 °C ~ 60 °C		
	Cooling concept	Natural convection		
	Noise emission	< 35 dB		
	Degree of protection (as per IEC 60529)	IP66		
	Relative humidity	100 %		
	Max. operating altitude	4000 m		
Features	HMI	LED, App		
	BMS interface	CAN		
	Smart meter interface	RS485		
	Communication interfaces	Dongle: Wi-Fi (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	● / ●		
	Certificates (more available upon request)	AS/NZS 4777.2, TOR Stromerzeugungsanlagen Typ A, C10/11, TR 3.3.1, FD C11-519-11, EN 50549-1, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, VDE-AR-N 4105, IEC 60068-2-x, IEC 61683. IEC 61727, IEC 62116, IEC 63027, NTS Type A. RD 647, UNE 217001, UNE 217002, NA/EEA-NE7, G99-1, PORTARIA Nº 140		

● standard features O 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 150 V - 950 V, pending subsequent certificate updates.
[4] Modbus TCP functionality released in April 2025, please confirm version with Solplanet's sales staff before purchase.
[5] When connecting to Solplanet's Ai-HB G2 Series batteries (with only 5 kWh, i.e. two modules), limitations as below apply:
1. The maximum open circuit voltage of PV shall not exceed 750 V;
2. The battery nominal voltage range is reduced to 102.4 V for the particular operation;
3. The maximum charging and discharging current depends on the operating point and is within the range greater than 25 A, less than 30 A.

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]
- ShadeSol shadow management

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 [2]				
	MPP voltage range / rated input voltage	150 V - 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		
	Max. short-circuit current per MPP tracker	30 A				
Battery input	Battery voltage range	120 V - 600 V [2]				
	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. discharge power	5000 W	6000 W	8000 W	10000 W	12000 W
	Max. charge / discharge current	50 A [2]				
	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 - 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 Hz - 55 Hz / 55 Hz - 65 Hz				
	Rated apparent power	5000 VA	6000 VA	8000 VA	10000 VA	12000 VA
	Max. apparent power	5500 VA	6600 VA	8800 VA	11000 VA	13200 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 - 0.8 lagging				
	Harmonics THDi	< 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 %				
Genera-tor 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 V / 380 V; 230 V / 400 V; 240 V / 415 V				
	Rated AC frequency	50 Hz / 60 Hz				
Effi-ciency	MPPT efficiency	99.9 %				
	European 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)	O [1]				
General data	Dimensions (W / D / H)	625 / 241 / 465 mm				
	Weight	28.0 kg				
	Operating temperature range	-25 °C ~ 60 °C				
	Cooling concept	Natural convection				
	Degree of protection (as per IEC 60529)	IP66				
	Relative humidity	100 %				
	Max. operating altitude	4000 m				
Features	HMI	LED, App				
	BMS interface	CAN				
	Smart meter interface	RS485				
	Communication interfaces	Dongle: Wi-Fi (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	● / ●				
	Certificates (more available upon request)	AS/NZS 4777.2, TOR Stromerzeugungsanlagen Typ A , C10/11, TR 3.3.1, FD C11-519-11, EN 50549-1, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, VDE-AR-N 4105, IEC 60068-2-x, IEC 61683. IEC 61727, IEC 62116, IEC 63027, NTS Type A. RD 647, UNE 217001, UNE 217002, NA/EEA-NE7, G99-1, PORTARIA Nº 140				

● standard features / O optional features / - not available

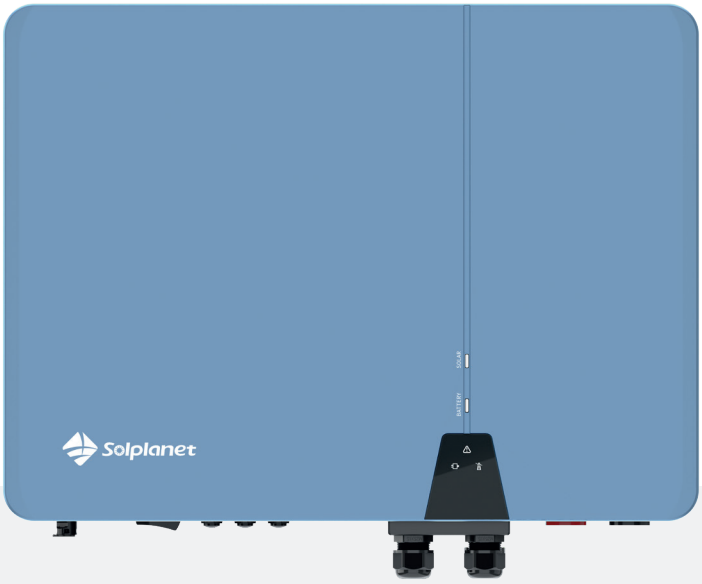
[1] AFCI functionality released in April 2025, please confirm version with Solplanet's sales staff before purchase.

[2] When connecting to Solplanet's Ai-HB G2 Series batteries (with only 5 kWh, i.e. two modules), limitations as below apply:

1. The maximum open circuit voltage of PV shall not exceed 750 V;
2. The battery nominal voltage range is reduced to 102.4 V for the particular operation;
3. The maximum charging and discharging current depends on the operating point and is within the range greater than 36 A, less than 50 A.

Three phase hybrid inverters 8 to 15 kW

ASW H-T3-DG Series



Models:
ASW08kH-T3-DG
ASW10kH-T3-DG
ASW12kH-T3-DG
ASW15kH-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 output²
- UPS level switching time < 10 ms
- IP66 rated design for indoor and outdoor use
- DC SPD surge protection
- Arc fault circuit interrupter (AFCI)
- ShadeSol shadow management

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	ASW15kH-T3-DG	
PV input	Max. PV array power	12000 Wp	15000 Wp	18000 Wp	22500 Wp	
	Max. input voltage	1100 V [1]				
	MPP voltage range / rated input voltage	150 V - 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				
	Max. short-circuit current per MPP tracker	24 A				
Battery input	Battery voltage range	120 V - 600 V [1]				
	Max. charging power from PV and grid	12000 W			15000 W	
	Max. charging power from grid	8000 W	10000 W	12000 W	15000 W	
	Max. discharge power	8000 W	10000 W	12000 W	15000 W	
	Max. charge / discharge current	50 A [1]				
	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	24000 W	
	Max. input current from grid	23.2 A	29.0 A	34.8 A	34.8 A	
AC output	AC voltage range / Nominal AC voltage	270V - 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 Hz - 55 Hz / 55 Hz - 65 Hz				
	Rated apparent power	8000 VA	10000 VA	12000 VA	15000 VA	
	Max. apparent power	8000 VA	10000 VA	12000 VA	15000 VA	
	Rated grid output current (@400 V)	11.6 A	14.5 A	17.4 A	21.7 A	
	Max. grid output current(@400 V)	12.8 A	16.0 A	19.2 A	23.9 A	
	Power factor at rated power / adjustable displacement	1 / 0.8 leading - 0.8 lagging				
	Harmonics THDi	< 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	23.9 A	
	Rated current (@400 V)	11.6 A	14.5 A	17.4 A	21.7 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	34.8 A	21.7 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	8000 W	5000 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	24000 VA	24000 VA
	Max. switch time	< 10 ms				
	Output THDv (@ Linear load)	2 %				
Generator side	Max. input apparent power	12000 VA	15000 VA	18000 VA	18000 VA	
	Max. charging power of battery	8000 W	10000 W	12000 W	15000 W	
	Rated AC voltage	3/N/PE, 220 / 380 V; 230 V / 400 V; 240 V / 415 V				
	Rated AC frequency	50 Hz / 60 Hz				
Efficiency	MPPT efficiency	99.9 %				
	European 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)	○			●	
General data	Dimensions (W / D / H)	625 / 241 / 465 mm			625 / 245 / 465 mm	
	Weight	29.5 kg			30.0 kg	
	Operating temperature range	-25 °C ~ 60 °C				
	Cooling concept	Natural convection			Smart cooling	
	Degree of protection (as per IEC 60529)	IP66				
	Relative humidity	100 %				
	Max. operating altitude	4000 m				
Features	HMI	LED, App				
	BMS interface	CAN				
	Smart meter interface	RS485				
	Communication interfaces	Dongle: Wi-Fi (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	● / ●				
	Certificates (more available upon request) [3]	AS/NZS 4777.2, TOR Stromerzeugungsanlagen Typ A, C10/11, TR 3.3.1, FD C11-519-11, EN 50549-1, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, VDE-AR-N 4105, IEC 60068-2-x, IEC 61683. IEC 61727, IEC 62116, IEC 63027, NTS Type A. RD 647, UNE 217001, UNE 217002, NA/EEA-NE7, G99-1, PORTARIA Nº 140			IEC 61683, IEC 61727, IEC 62116, IEC 63027, EN 50549, Ord 208, PL NC RfG, PTPiREE	

● standard features / ○ optional features / - not available

[1] When connecting to Solplanet's Ai-HB G2 Series batteries (with only 5 kWh, i.e. two modules), limitations as below apply:
1. The maximum open circuit voltage of PV shall not exceed 750 V;
2. The battery nominal voltage range is reduced to 102.4 V for the particular operation;
3. The maximum charging and discharging current depends on the operating point and is within the range greater than 36 A, less than 50 A.

[2] Please consult local sales regarding supporting symmetric or asymmetric parallel.

[3] Please consult local sales regarding the certification availability.

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
- Integrated parallel function in on-grid mode with symmetric power output[1]

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
- Asymmetical power output

User-friendly

- Compatible with diesel generators[2]
- Quick and easy-to-install with standard tools
- 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 - 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 - 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 - 480 V				
	Rated AC grid frequency	50 Hz / 60 Hz				
	AC grid frequency range	45 Hz - 55 Hz / 55 Hz - 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 - 0.8 lagging				
	Harmonics THDi	< 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	99.9 %				
	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 / D / H)	769 / 285 / 491 mm				
	Weight	52.0 kg		58.0 kg		
	Operating temperature range	-30 °C ~ 60 °C				
	Cooling concept	Smart cooling				
	Degree of protection (as per IEC 60529)	IP66				
	Relative humidity	100 %				
	Max. operating altitude	4000 m				
Features	HMI	LED, App				
	BMS interface	CAN				
	Communication Interfaces	Dongle: Wi-Fi (2.4 GHz) / LAN (100 Mbps) Inverter: RS485 (ModBus RTU), LAN (100 Mbps, ModBus TCP only)				
	Digital output (dry contact) / No. of outputs	● / 3				
	Digital input (dry contact) / No. of inputs	● / 7				
	Integrated power control / export power control	● / ●				

● standard features / O optional features / - not available

[1] Parallel function requires integration with Solplanet's Ai-Hub energy management system when operating in on-grid mode. This function is supported in models produced from August 2025 onward and with software version R008 or higher.

[2] Integration with diesel generator is supported in models produced from November 2025 onward.

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
- All-around protection with Battery Management System (BMS)

Easy-to-install

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

User-friendly

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

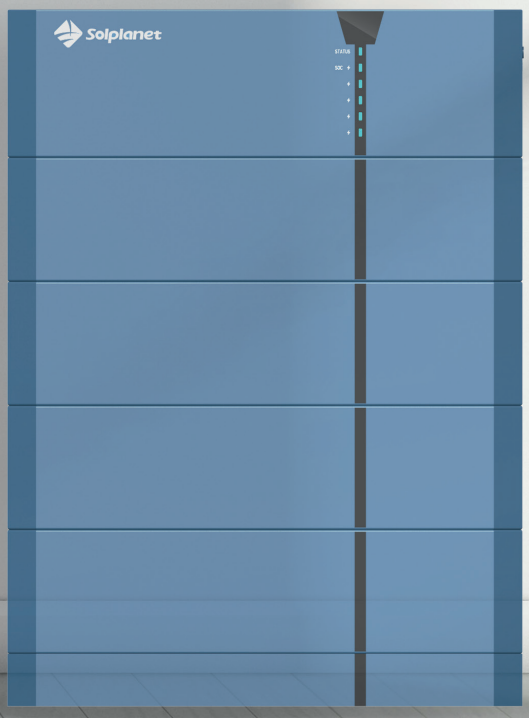
Efficient & intelligent

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

Technical Datasheet

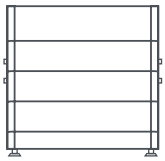
		ASW0600/ 1250A-S	ASW0800/ 1250A-S	ASW1000/ 1250A-S	ASW0600/ 2500A-S	ASW0800/ 2500A-S	ASW1000/ 2500A-S
PV input	Max. PV array power	2000 Wp					
	Max. input voltage	50 V					
	MPP voltage range / rated input voltage	16 V - 50 V / 40 V					
	Min. input voltage / start voltage	26 V / 30 V					
	No. of independent 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	220 V / 230 V / 240 V					
	AC voltage range	154 V - 276 V					
	Rated AC grid frequency	50 Hz / 60 Hz					
	AC grid frequency range	45 Hz - 55 Hz / 55 Hz - 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	< 3 % (of nominal power)					
AC input	Rated grid voltage	220 V / 230 V / 240 V					
	Rated grid frequency	50 Hz / 60 Hz					
	Max. input power from grid	1000 W					
	Max. input current from grid	4.8 A					
AC output(Off-grid)	Nominal output voltage	230 V					
	Nominal output frequency	50 Hz / 60 Hz					
	Rated apparent power	1000 VA					
	Peak output apparent power	1600 VA, 60 s					
	Rated output current (@230 V)	4.4 A					
	Max. output current	4.8 A					
	Output THDv (@ Linear load)	< 2 %					
	EPS model	Manual switch					
Efficiency	MPPT efficiency	99.9 %					
	Max. battery to load efficiency	92.0 %					
General data	Power factor at rated power / adjustable range	1 / 0.8 leading - 0.8 lagging					
	Topology	Isolated					
	Dimensions (W / D / H)	600 / 310 / 400 mm					
	Weight	31.0 kg			38.0 kg		
	Operating temperature range	-15 °C ~ 45 °C					
	Cooling concept	Fan Cooling					
	Degree of protection (as per IEC 60529)	IP55					
	Relative humidity	95.0 %					
	Max. operating altitude	3000 m					
Features	HMI	LCD, App					
	Zero-export interface	CT					
	Internet communication interfaces	Wi-Fi					
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

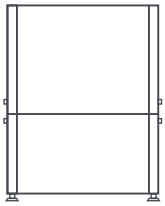


Store each energy

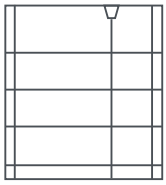
HIGH VOLTAGE BATTERY



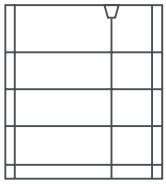
AP-H SERIES
APH5.0-S2 / S3 / S4 / S5 / S6 / S7 / S8 / S9 / S10



Ai-HB G2-E SERIES
Ai-HB-E 050A / 100A / 150A / 200A

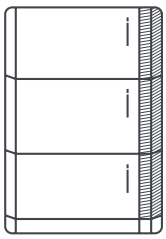


Ai-HB G2 Pro SERIES
Ai-HB Pro 050A / 075A / 100A / 125A / 150A / 175A / 200A

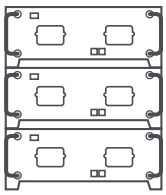


Ai-HB G2 SERIES
Ai-HB 050A /075A / 100A / 125A / 150A / 175A / 200A

LOW VOLTAGE BATTERY



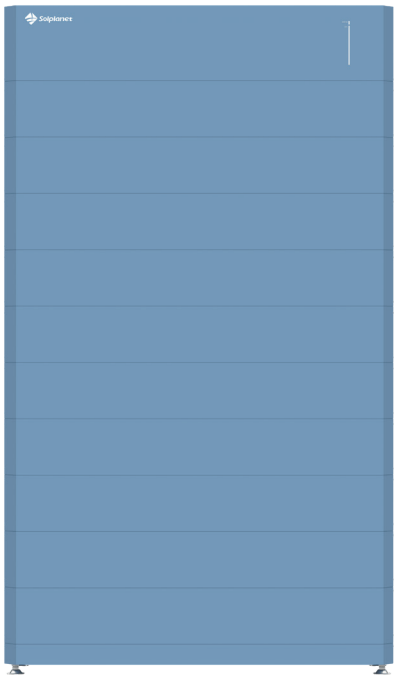
Ai-LB-G3 SERIES
ASW5120-LB-G3



Ai-LB-E SERIES
ASW5120-LB-E

High Voltage Battery 10 to 51 kWh

AP-H Series



Models:
APH5.0-S2
APH5.0-S3
APH5.0-S4
APH5.0-S5
APH5.0-S6
APH5.0-S7
APH5.0-S8
APH5.0-S9
APH5.0-S10

Safe

- Stackable up to 51.2 kWh per tower, max. 4 towers in parallel (204.8 kWh)
- Plug-and-play design for simplified installation

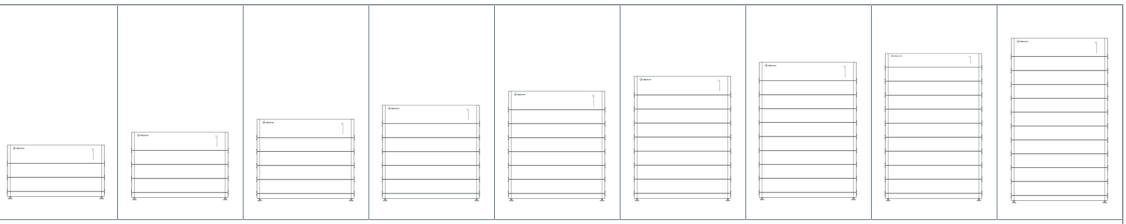
Reliable

- Built-in emergency fire suppression module
- IP65 rated design for indoor and outdoor use
- Built with durable LFP technology and an intelligent battery management system

User-friendly

- 51 kWh tower at just 1.8 meters in height
- Lightweight modules for easier handling and installation
- Compact design fits for narrow spaces like garages and walkways
- 5 selections for operating (LED) indicator via Solplanet's App

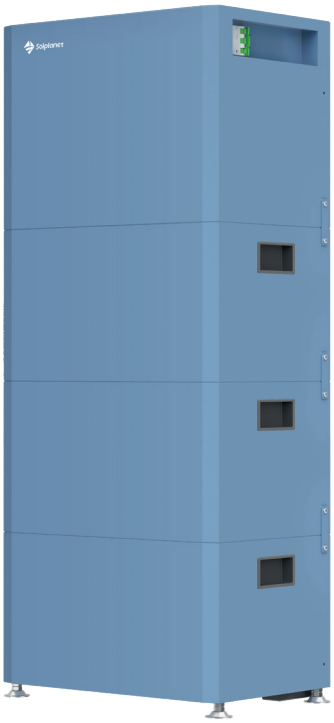
Technical Datasheet

		APH5.0-S2	APH5.0-S3	APH5.0-S4	APH5.0-S5	APH5.0-S6	APH5.0-S7	APH5.0-S8	APH5.0-S9	APH5.0-S10
System Data	battery designation									
	Battery module	APH 5.0								
	Module quantity	2[5]	3	4	5	6	7	8	9	10
	Cell type	LiFePO4								
	Rated capacity	100 Ah								
	Nominal energy[1]	10.24 kWh	15.36 kWh	20.48 kWh	25.6 kWh	30.72 kWh	35.84 kWh	40.96 kWh	46.08 kWh	51.2 kWh
	Usable energy[2]	9.72 kWh	14.59 kWh	19.45 kWh	24.32 kWh	29.18 kWh	34.04 kWh	38.91 kWh	43.77 kWh	48.64 kWh
	Nominal voltage	102.4 V	153.6 V	204.8 V	256.0 V	307.2 V	358.4 V	409.6 V	460.8 V	512.0 V
	Battery voltage range	80 V - 118.4 V	120 V - 177.6 V	160 V - 236.8 V	200 V - 296 V	240 V - 355.2 V	280 V - 414.4 V	320 V - 473.6 V	360 V - 532.8 V	400 V - 592 V
	Recommended charge / discharge current	50 A / 50 A								
	Max. charge / discharge current	50 A / 50 A								
	Rated DC power	5.12 kW	7.68 kW	10.24 kW	12.8 kW	15.36 kW	17.92 kW	20.48 kW	23.04 kW	25.6 kW
	Rated charge / discharge power	5.12 kW	7.68 kW	10.24 kW	12.8 kW	15.36 kW	17.92 kW	20.48 kW	23.04 kW	25.6 kW
	Max. charge / discharge power	5.12 kW	7.68 kW	10.24 kW	12.8 kW	15.36 kW	17.92 kW	20.48 kW	23.04 kW	25.6 kW
System Data	Dimensions（W / D / H）	1040 / 250 / 600 mm	1040 / 250 / 750 mm	1040 / 250 / 900 mm	1040 / 250 / 1050 mm	1040 / 250 / 1200 mm	1040 / 250 / 1350 mm	1040 / 250 / 1500 mm	1040 / 250 / 1650 mm	1040 / 250 / 1800 mm
	Weight	111.0 kg	157.0 kg	203.0 kg	249.0 kg	295.0 kg	341.0 kg	387.0 kg	433.0 kg	479.0 kg
	Installation location	Indoor / utdoor								
	Mounting method	Floor mounted								
	Operating temperature range	Charge：0 ℃ ~ 58 ℃ Discharge：-20 ℃ ~ 58 ℃								
	Storage temperature range	-20 ℃ ~ 60 ℃								
	Cooling concept	Natural convection								
	Protective class	I								
	Degree of protection	IP65								
	Relative humidity	5 % - 95 % (Non - condensing)								
	Max. operating altitude	4000 m (>3000 m derating)								
	Communication	CAN								
	Certificate	IEC 62619, IEC 62040, IEC 63056, IEC 61000								
	Cycle life[3]	6000 times								
	Round-trip efficiency	≥ 95 %								

1. Nominal energy is defined under the following conditions: 0.5 C charge & discharge at 25 ℃.
2. Usable energy is defined under the following conditions: 95 %DOD, 0.2 C charge & discharge at 25 ℃.
3. Cycle life is defined under the following conditions: 90 %DOD, 0.5 C charge & discharge at 25 ℃ (One cycle a day), 70 %EOL.

High Voltage Battery 5 to 20 kWh

Ai-HB G2-E Series



Models:
Ai-HB-E 050A
Ai-HB-E 100A
Ai-HB-E 150A
Ai-HB-E 200A

Safe

- LFP technology with cell-level monitoring for precise alerts and maximum safety
- Built-in emergency fire suppression module for rapid response in critical situations
- Advanced BMS protects against overcharge, over-discharge, and short circuits

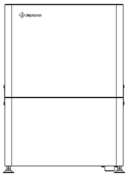
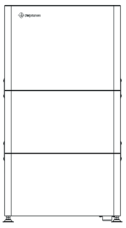
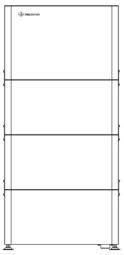
Reliable

- Robust anti-dumping design delivers secure installation and shock resistance
- Modular Plug-and-Play design supports flexible expansion (up to 8 units in parallel)
- Versatile applications for self-consumption, time-of-use tariffs, and customizable modes

User-friendly

- Stackable and expandable up to 163.84 kWh
- IP20 rating ensures safe and reliable operation in diverse indoor environments
- Real-time monitoring via Solplanet's App enables effortless control anytime, anywhere

Technical Datasheet

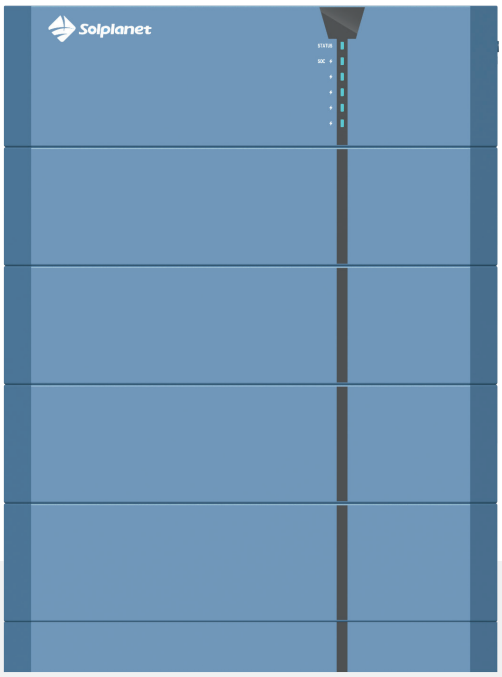
		Ai-HB-E 050A	Ai-HB-E 100A	Ai-HB-E 150A	Ai-HB-E 200A
System Data	Battery designation				
	Battery module-Master	ASW5120M-HB-E			
	Battery module-Slave	ASW5120S-HB-E			
	Cell type	LiFePO4			
	Module quantity	1 Master	1 Master + 1 Slave	1 Master + 2 Slaves	1 Master + 3 Slaves
	Rated capacity	50 Ah			
	Nominal energy[1]	5.12 kWh	10.24 kWh	15.36 kWh	20.48 kWh
	Usable energy[2]	4.60 kWh	9.21 kWh	13.82 kWh	18.43 kWh
	Nominal voltage	102.4 V	204.8 V	307.2 V	409.6 V
	Operating voltage range	96 V - 115.2 V	192 V - 230.4 V	288 V - 345.6 V	384 V - 460.8 V
	Max. charge current	50 A			
	Max. discharge current	50 A			
	Rated charge /discharge power	5.12 kW	10.24 kW	15.36 kW	20.48 kW
	Max.charge power	5.12 kW	10.24 kW	15.36 kW	20.48 kW
	Max.discharge power	5.12 kW	10.24 kW	15.36 kW	20.48 kW
General Data	Dimensions including the base (W / D / H)	525 / 350 / 415 mm	525 / 350 / 700 mm	525 / 350 / 985 mm	525 / 350 / 1270 mm
	Weight	60.5 kg	116.0 kg	171.5 kg	227.0 kg
	Installation location	Indoor			
	Mounting method	Floor mounted			
	Operating temperature range	Charge: 0 °C ~ 50 °C Discharge: -20 °C ~ 50 °C			
	Storage temperature range	-20 °C ~ 45 °C			
	Cooling concept	Natural convection			
	Degree of protection	IP20			
	Relative humidity	5 % - 95 %（Non-condensing）			
	Communication	CAN			
	Certificate	IEC 62619, EN 61000, UN38.3, IEC 62477			
	Protection	Charging over-voltage protection, discharge under-voltage protection, over-current protection, over-temperature protection ,short-circuit protection, fire suppression, etc			
	Cycle life[3]	6000 times			
	Round-trip efficiency	≥ 95 %			

1. Nominal energy is defined under the following conditions: cell voltage 2.5 V - 3.65V, 0.5C charge & discharge at 25 °C.
2. Usable energy is defined under the following conditions: 90 % DOD, 0.5C charge & discharge at 25 °C. Usable energy may vary depending on discharge, charge, environmental conditions and SOC % limits defined by the user.
3. Cycle life is defined under the following conditions: 90 % DOD, 70 % EOL, 0.5C charge & discharge at 25 °C.

* Parallel expansion is only supported within same series models.

High Voltage Battery 5 to 20 kWh

Ai-HB G2 Pro Series



Models:

Ai-HB Pro 050A
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 163.84 kWh (supporting 8 modules per unit, 8 units in parallel)
- IP65 rated design for indoor and outdoor use
- Multi-use applications: self-consumption, time of use tariffs, customisation

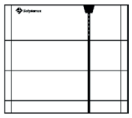
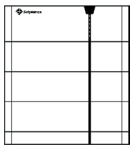
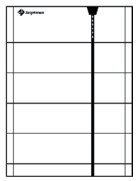
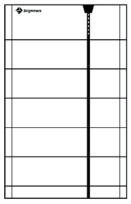
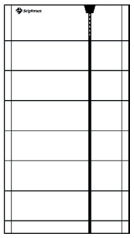
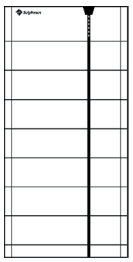
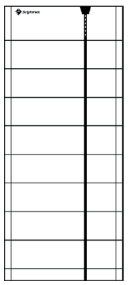
Safe & reliable

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

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

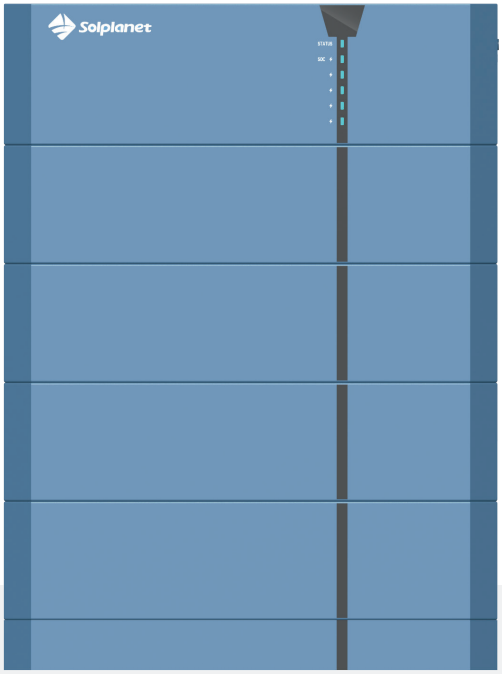
		Ai-HB Pro 050A	Ai-HB Pro 075A	Ai-HB Pro 100A	Ai-HB Pro 125A	Ai-HB Pro 150A	Ai-HB Pro 175A	Ai-HB Pro 200A
System Data	Battery designation							
	Battery module	HB051050B						
	Cell type	LiFePO4						
	Module quantity	2	3	4	5	6	7	8
	Rated capacity	50 Ah						
	Nominal energy[1]	5.12 kWh	7.68 kWh	10.24 kWh	12.8 kWh	15.36 kWh	17.92 kWh	20.48 kWh
	Usable energy[2]	4.60 kWh	7.29 kWh	9.72 kWh	12.16 kWh	14.59 kWh	17.02 kWh	19.45 kWh
	Nominal voltage	102.4 V	153.6 V	204.8 V	256.0 V	307.2 V	358.4 V	409.6 V
	Battery voltage range	80 V - 106.8 V	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
	Recommended charge / discharge current	50 A / 50 A						
	Max. charge / discharge current	50 A / 50 A						
	Rated charge / discharge power	5.12 kW	7.68 kW	10.24 kW	12.8 kW	15.36 kW	17.92 kW	20.48 kW
	Max.charging power	5.12 kW	7.68 kW	10.24 kW	12.8 kW	15.36 kW	17.92 kW	20.48 kW
	Max.discharging power	5.12 kW	7.68 kW	10.24 kW	12.8 kW	15.36 kW	17.92 kW	20.48 kW
General Data	Dimensions (W / D / H)	540 / 390 / 470 mm	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	78.0 kg	109.0 kg	140.0 kg	171.0 kg	202.0 kg	233.0 kg	264.0 kg
	Battery module weight	31.0 kg						
	Depth of discharge	95.0 %						
	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）						
	Max. operating altitude	3000 m (> 2000 m derating)						
	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						
	Certificate	IEC62619 / EN61000 / VDE2510-50 IEC62040 / UN38.3						
	Cycle life[3]	8000 times						
	Round-trip efficiency	≥ 95 %						

1. Nominal energy is defined under the following conditions: cell voltage 2.5 V - 3.65 V, 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. Cycle life is defined under the following conditions: 90% DOD, 70% EOL, 0.2C charge / discharge at 25°C.

* Parallel expansion is only supported within same series models.

High Voltage Battery 5 to 20 kWh

Ai-HB G2 Series



Models:

Ai-HB 050A
Ai-HB 075A
Ai-HB 100A
Ai-HB 125A
Ai-HB 150A
Ai-HB 175A
Ai-HB 200A

Easy-to-install

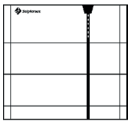
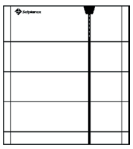
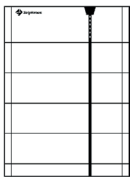
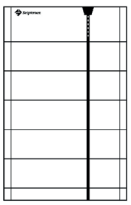
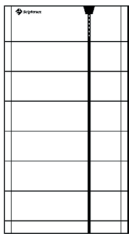
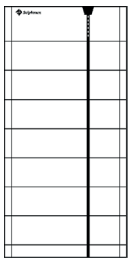
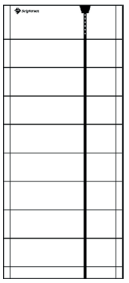
- Modular design with plug-in connections
- Quick connections between battery and inverter
- Quick and easy-to-install with standard tools
- Steady and anti-dumping design

Safe & reliable

- IP65 rated design for indoor and outdoor use
- Cell-level monitoring
- LFP safe technology

User-friendly

- **Stackable and expandable up to 163.84 kWh (supporting 8 modules per unit, 8 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 050A	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	2[5]	3	4	5	6	7	8
	Rated capacity		50 Ah					
	Nominal energy[1]	5.12 kWh	7.68 kWh	10.24 kWh	12.8 kWh	15.36 kWh	17.92 kWh	20.48 kWh
	Usable energy[2]	4.60 kWh	6.91 kWh	9.21 kWh	11.52 kWh	13.82 kWh	16.12 kWh	18.43 kWh
	Nominal voltage	102.4 V	153.6 V	204.8 V	256 V	307.2 V	358.4 V	409.6 V
	Battery voltage range	80 V - 116.8 V	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
	Recommended charge / discharge current	25 A / 30 A						
	Max. charge / discharge current	25 A / 30 A						
	Rated charge / discharge power	2.56 kW	3.84 kW	5.12 kW	6.40 kW	7.68 kW	8.86 kW	10.24 kW
	Max.charging power	2.56 kW	3.84 kW	5.12 kW	6.40 kW	7.68 kW	8.86 kW	10.24 kW
	Max.discharge power	3.08 kW	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 / 470 mm	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	76.0 kg	106.5 kg	137.0 kg	167.5 kg	198.0 kg	228.5 kg	259.0 kg
	Battery module weight	30.5 kg						
	Installation location	Indoor / Outdoor						
	Mounting method	Floor mounted						
	Operating temperature range	Charge: 0 °C ~ 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）						
	Max. operating altitude	3000 m (> 2000 m derating)						
	Communication	CAN						
	Certificate	IEC 62619, EN 61000, IEC 62040, UN38.3						
	Cycle life[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 V - 3.65 V, 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. Cycle life 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.
5. When using only 2 modules (5.12 kWh), please ensure that the maximum operating voltage of the inverter's photovoltaic system is not higher than 750 V.

* Battery towers of different series or models cannot be used in parallel.

Low Voltage Battery 5 to 25 kWh

Ai-LB-G3 Series

Model:
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

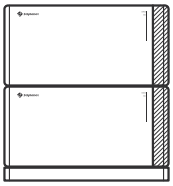
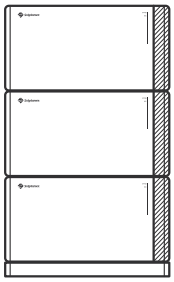
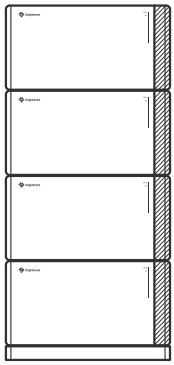
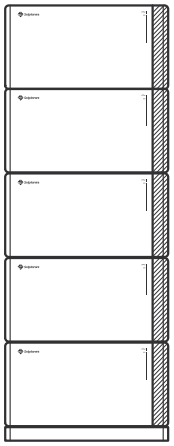
Safe & reliable

- 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 5 modules, 25.6 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	5
						
	Cell type	LiFePO4				
	Rated capacity	100 Ah				
	Nominal energy[1]	5.12 kWh	10.24 kWh	15.36 kWh	20.48 kWh	25.6 kWh
	Usable energy[2]	4.86 kWh	9.72 kWh	14.59 kWh	19.45 kWh	24.32 kWh
	Nominal battery voltage	51.2 V				
	Battery voltage range	40 V - 58.4 V				
	Recommended charge / discharge current	60 A	120 A	120 A	120 A	120 A
	Max. charge / discharge current	100 A	120 A	120 A	120 A	120 A
	Rated charge / discharge power	3.07 kW	6.14 kW	6.14 kW	6.14 kW	6.14 kW
	Max. charge / discharge power	5.12 kW	6.14 kW	6.14 kW	6.14 kW	6.14 kW
General Data	Dimensions (W / D / H)	630 / 185 / 320 mm	630 / 185 / 640 mm	630 / 185 / 960 mm	630 / 185 / 1280 mm	630 / 185 / 1600 mm
	Module weight	46.0 kg	92.0 kg	138.0 kg	184.0 kg	230.0 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	5 % - 95 %（Non-condensing）				
	Max. operating altitude	4000 m (> 3000 m derating)				
	Communication	CAN				
	Certificate	IEC 62619, IEC 62040, IEC 62477, IEC 63056, IEC 61000				
	Cycle life[3]	6000 times				
	Round-trip efficiency	≥ 95 %				

1. Nominal energy is defined under the following conditions: battery voltage 40 V - 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. Cycle life 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

Model:
ASW5120-LB-E

Optimal performance

- LFP safe technology, long cyclelife, high efficiency and high power density
- Supports up to 1C charge / discharge rate with short-term 2 C 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
- Built-in fire suppression functionality [4]

User-friendly

- Stackable and expandable up to 163.84 kWh (supporting 8 modules per unit, 4 units in parallel)
- Streamlined design for easier handling
- Various mounting methods: wall-mounted, floor-standing, and racked

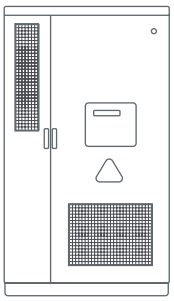
Technical Datasheet

System Data	Battery module	ASW5120-LB-E
	Cell type	LiFePO4
	Rated capacity	100 Ah（≥ 100 Ah)
	Nominal energy[1]	5.12 kWh
	Usable energy[2]	4.6 kWh
	Nominal voltage	51.2 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	5 % - 95 %（Non-condensing）
	Max. operating altitude	3000 m (> 2000 m derating)
	Scalability	Max. 32 sets in parallel
	Communication	CAN
	Certificate	IEC62619, IEC61000, UN38.3
	Cycle life[3]	6000 times
	Round-trip efficiency	≥ 95 %

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. Cycle life is defined under the following conditions: 90% DOD, 70% EOL, 0.5C charge / discharge at 25°C (One cycle a day).
4. This specification is only applicable in European region.

C&I Energy Storage System

Power every business moment



C&I ESS

ASW 125K/261-PT

All-in-one ESS Cabinet

ASW PT Series

Model:
ASW 125K/261-PT

All in one Design

- High energy density, with PCS and battery integrated into one cabinet
- Space-saving design, requiring minimal floor space
- Modular design for easy installation and capacity expansion

High safety

- Multi-level electrical protection and fire protection
- PACK-level alarms and protection to effectively prevent fault propagation
- Zone-isolated enclosure and advanced liquid cooling

Smart O&M

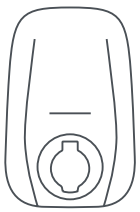
- Modular design, PCS and battery module replaced quickly
- High-cycling cells design reduces lifecycle maintenance
- Integrated local EMS for real-time data and system monitoring

Technical Datasheet ASW 125K/261-PT

Battery Parameter	Battery energy	261 kWh
	Battery type	LiFePO4 3.2 V / 314 Ah
	Battery module energy	52 kWh
	Rated voltage	832 V
	Voltage range	728 V - 936 V
	Battery system configuration	1P260S
	Charge and discharge rate	0.5P
	Cooling concept	Liquid cooling
AC Parameter	Rated power	125 kW
	Max. apparent power	137.5 kVA
	Rated voltage	400 V
	Voltage range	323 V - 460 V
	Rated frequency	50 Hz / 60 Hz
	Rated current	180 A
	THD	≤ 3 %
	Power factor	-1 ~ +1
	Overload capability	110% - longtime
General Parameter	System efficiency	≥ 90%
	Cycle life	≥ 8000 times
	Operating temperature range	-25 °C ~ 55 °C
	Operating humidity	5 % - 95 % R.H
	Degree of protection	IP55
	Max. operating altitude	4000 m (≥2000m derating)
	Dimension (W / H / D)	1300 / 1400 / 2350 mm
	Weight	2.8 T
	Firefighting system	Aerosol
	Communication interface	CAN / RS485 / ETH / 4G

Smart EV Charger

Driving towards a green future



SOL APOLLO SERIES

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

SOL APOLLO Series

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

Easy-to-install

- 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 and 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
- OCPP[4]

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	Wi-Fi / Bluetooth / RS485 / LAN					
	RFID/NFC Reader	●					
	Status Indication	LED Light strip					
	Smart App	●					
	Communication protocol	OCPP1.6J [4]					
Working Environment	Ingress Protection	IP65 (Enclosure)					
	Operating Temperature	-25 °C ~ 50 °C					
	Storage Temperature	-40 °C ~ 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	4.0 kg / 5.0 kg	3.0 kg	4.0 kg / 4.5 kg	3.0 kg	5.0 kg / 6.5 kg	3.0 kg
	Colour	● Morandi Blue / ● Black					
	Cable Holder	●	-	●	-	●	-
Safety	DC Leakage Protection	●					
	Over Temperature Protection	●					
	Ground Protection	●					
	Surge Protection (EN60664)	● (Type III)					
	Certificate	CE, TUV, IEC 61851-1, EN 18031, EN 303645					

● 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

[4] OCPP1.6J is available from firmware 2.01 and above

Connect & monitor

Photo by Artem Podrez

Smart cloud-based monitoring & communication systems

CLOUD BASED MONITORING

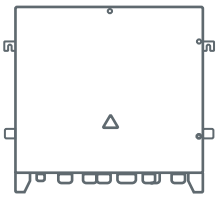
Solplanet Cloud and App

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	5
Communication Interface	North Communication	LAN	/	LAN 10 / 100 Mbps
		WLAN	2.4 GHz 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		5 % - 95 % (Non-condensing)	
	Max. Operating Altitude		3,000 m (9, 842 ft.)	4,000 m (13,123 ft.)
Elec-trical	DC Power Supply		7 V - 9 V	5 V - 12 V
	Power Consumption		Typical 2 W, Max. 5 W	
Mechan-ical	Dimensions (W / H / D)		51 / 112 / 27 mm	50 / 34 / 170 mm
	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	802.11 b/g/n (2.412 G ~ 2.484 G)
	South Communication	RS 485 (USB Type A)
Interac-tion	LED	LED Indicator x 2
	App	Solplanet App
Environ-ment	Operating Temperature Range	-40 °C ~ 60 °C (-40 °F ~ 140 °F)
	Storage Temperature	-40 °C ~ 70 °C (-40 °F ~ 158 °F)
	Relative Humidity	5 % - 95 % (Non-condensing)
	Max. Operating Altitude	4,000 m (13,123 ft.)
Elec-trical	DC Power Supply	5 V - 12 V
	Power Consumption	Typical 6.5 W, Max. 10 W
Mechan-ical	Dimensions (W / H / D)	50 / 34 / 154 mm
	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

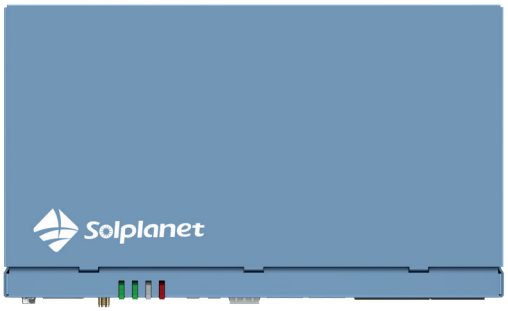
Technical Datasheet

			Ai-Logger 1000
Device Management	Max. Number of Manageable Devices*		80
Communication Interface	North Communication	LAN	LAN x 1, 10 / 100 / 1000 Mbps
	South Communication	RS485	COM x 3, 1000 m
	Others	Digital / Analog Input / Output	DI x 4, DO x 2
Interaction	LED		LED Indicator x 4 – COM 1~3, North communication
	WEB		Embedded Web
	USB		USB 2.0 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		5 % - 95 %（Non-condensing）
	Max. Operating Altitude		4,000 m (13,123 ft.)
Electrical	DC Power Supply		12 V - 24 V / 2 A
	Power Consumption		Typical 8 W, Max. 15 W
Mechanical	Dimensions (W / H / D)		240 / 126 / 42 mm
	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, 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	24 V / 0.8 A DC, 12 V / 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
Mechanical Parameter	Dimensions (W / H / D)	242 / 142 / 51.5mm (without installation accessories)
	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 specifically 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

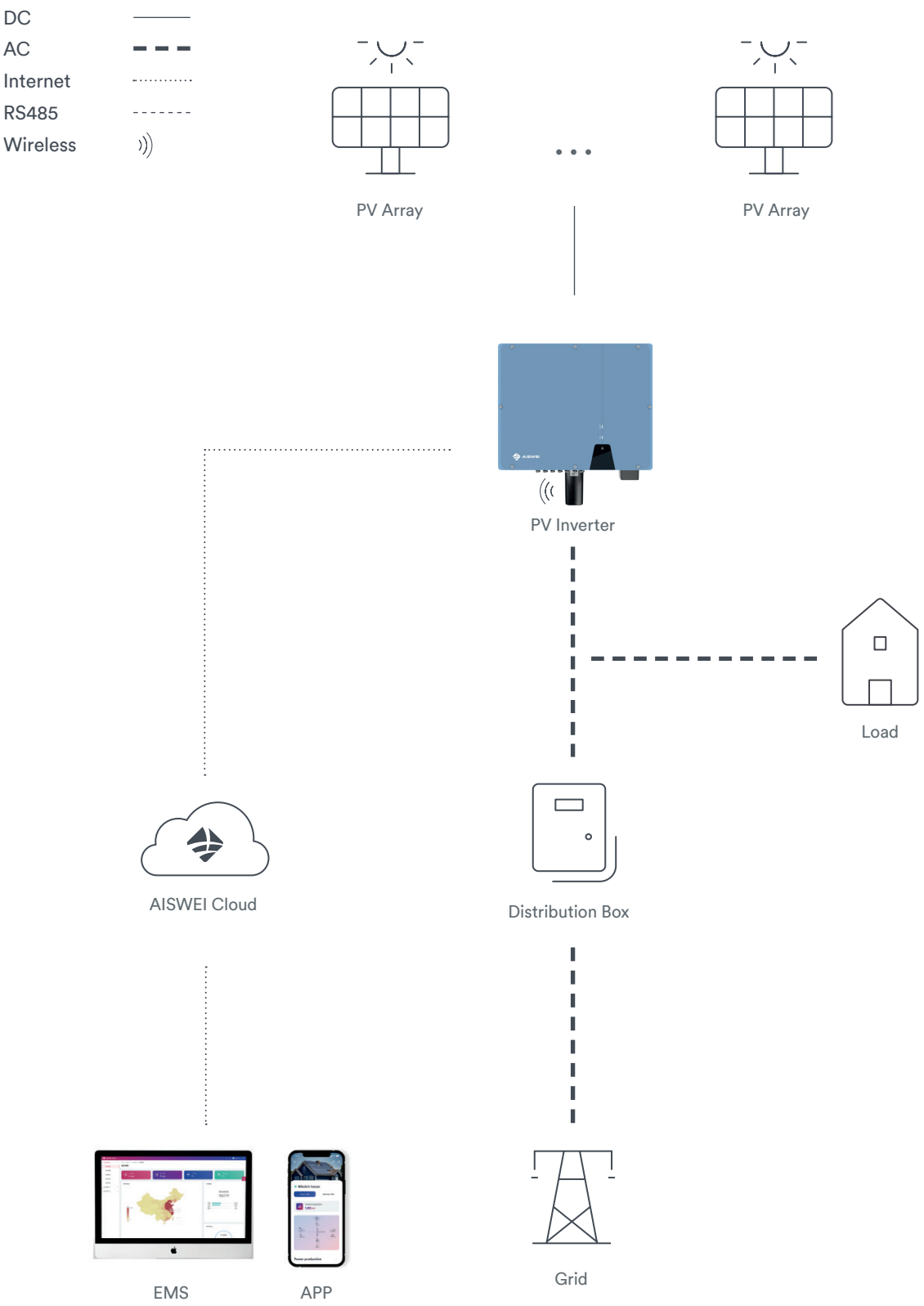
- Industrial-grade cpmponent selection with built-in high-performance surge protectors ensuring safety and reliablity

Technical Datasheet

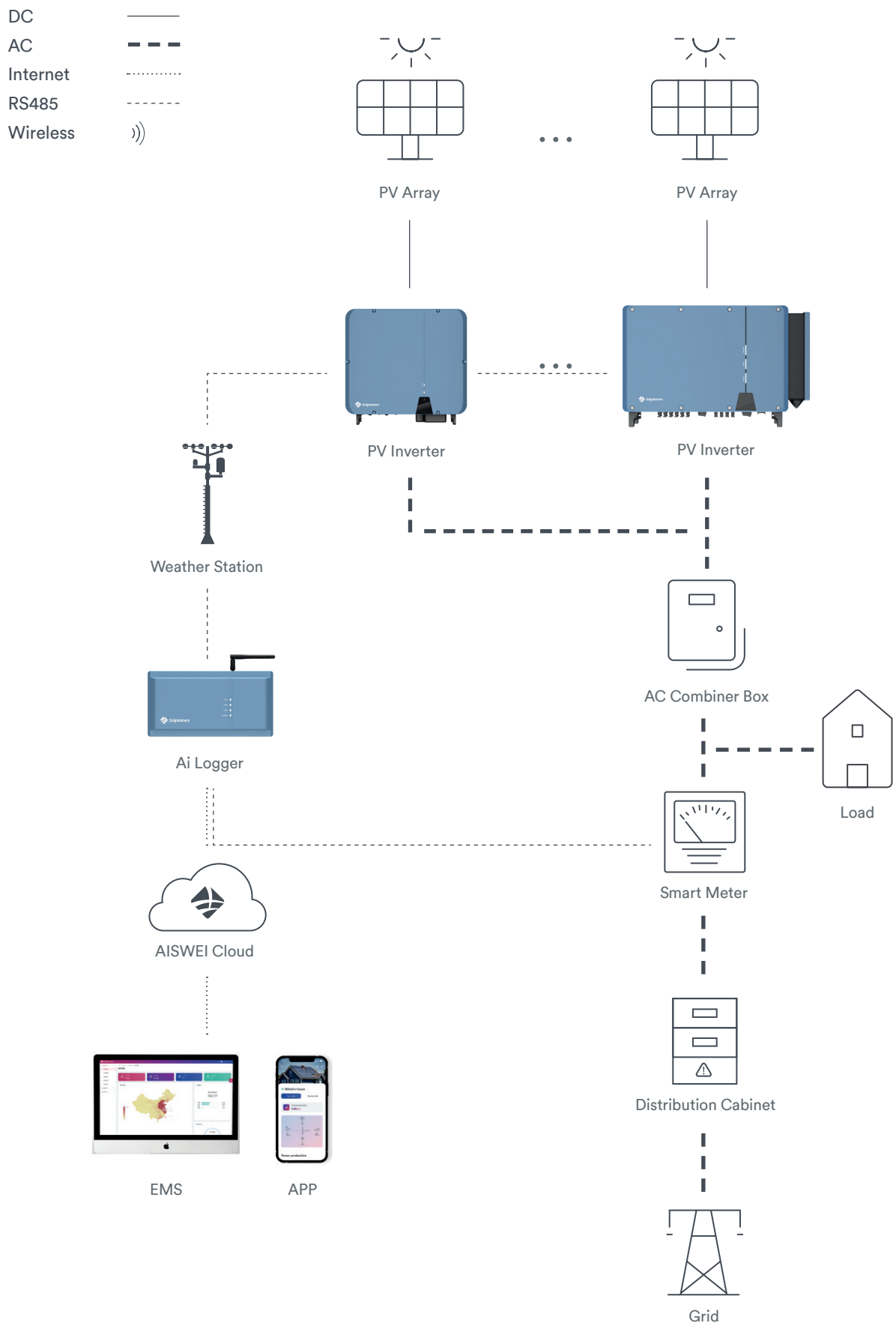
		Ai-AMU 2000
Basic Parameter	Built-in data collector	Ai-Logger 2000
	Ethernet	2 × WAN, 4 × LAN
	RS485	6×RS485
	DI / DO / AI	4 × DI / 4 × DO / 4 × AI
	PT100 / PT1000	2
	Fiber	2 × SFP
	USB	1
	ABUS port	2
	Anti-PID module	2
Environmental Parameter	Operating temperature	-30 °C ~ 60 °C
	Relative humidity	0% - 100% (non-condensing)
	Altitude	Max. 5000 m
Electrical Parameter	AC input voltage	100 V - 240 V, L / N (L)+PE
	ABUS input voltage	380 V - 800 V, 3Ph
	Anti-PID input voltage	380 V - 800 V, 3Ph+FE
	Anti-PID output voltage	0 / ± 750 V
	AC input frequency	50 Hz / 60 Hz
Consumption	Self consumption	Max. 250 W
Mechanical Parameter	Dimensions (W / H / D)	670 / 760 / 200 mm (without installation accessories)
	Ingress protection	IP66
	Mounting	Wall mounted, rack mounted, ground mounted

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

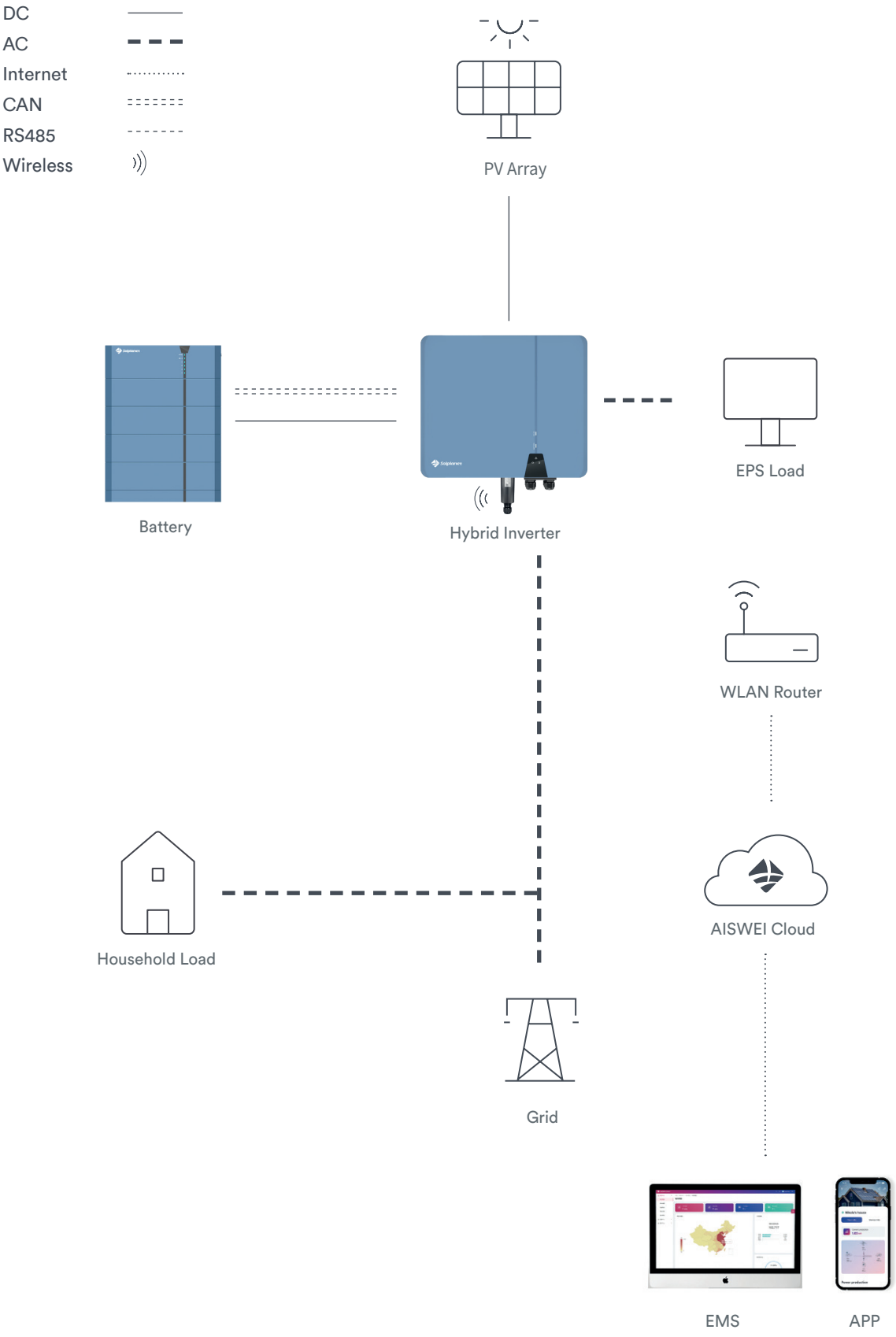
ASW RESIDENTIAL SOLUTION



ASW C&I SOLUTION



STORAGE SOLUTION



Internationally accredited laboratory

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

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

BUREAU VERITAS

TÜV SÜD

Intertek

CQC

TÜVRheinland
Precisely Right.

国家电网公司
STATE GRID
CORPORATION OF CHINA

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