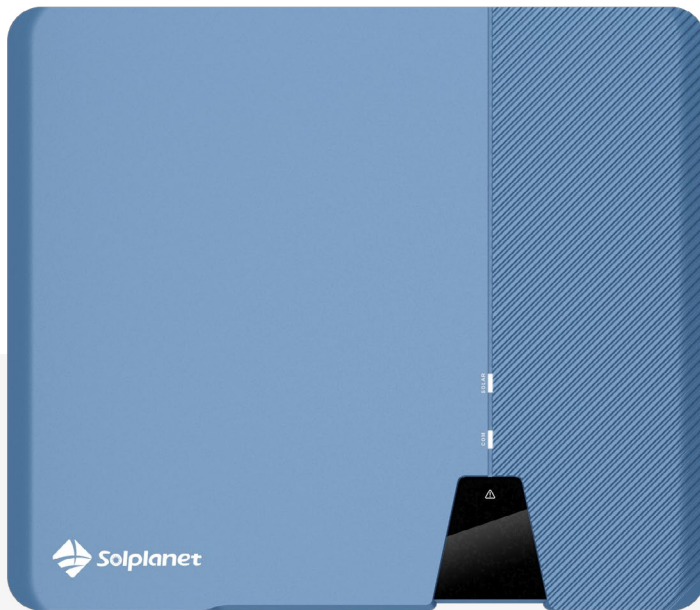


Three phase inverters 3 to 10 kW

ASW LT-G2 Pro Series



Models:

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



Easy-to-install

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



Reliable

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



User-friendly

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

Technical Datasheet

ASW 3K-LT-G2 Pro ASW 4K-LT-G2 Pro ASW 5K-LT-G2 Pro ASW 6K-LT-G2 Pro ASW 8K-LT-G2 Pro ASW 10K-LT-G2 Pro

Input (DC)	Max. PV array power	4500 Wp STC	6000 Wp STC	7500 Wp STC	9000 Wp STC	12000 WpSTC	15000 Wp STC
	Max. input voltage	1100 V					
	MPP voltage range / rated input voltage	150 V to 1000 V / 630 V					
	Min. input voltage	125 V					
	Initial. feed-in voltage	180 V					
	Max. operating input current	16 A / 16 A				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 to 300 V					
	AC grid frequency / range	50 Hz / 45 Hz to 55 Hz 60 Hz / 55 Hz to 65 Hz					
	Max. output current	4.8A	6.4 A	8.0 A	9.6 A	12.8 A	16 A
	Adjustable power factor range	0.8 leading to 0.8 lagging					
	Feed-in phases	3 / 3-N-PE					
	Harmonic distortion (THD) at rated output	< 3%					
Efficiency & Protection	Max. efficiency / European efficiency	98.3 % / 97.9 %				98.6% / 98.2 %	
	DC Switch	●					
	Ground fault monitoring / grid monitoring	● / ●					
	DC reverse polarity protection / AC short circuit protection	● / ●					
	All-pole-sensitive residual-current monitoring unit	●					
	Arc fault circuit interrupter (AFCI)	○					
	Anti-islanding protection	●					
	Surge protection	● / Type II					
	Protection class (according to IEC 62109-1) / overvoltage category (according to IEC 62109-1)	I / AC : III ; DC : II					
General data	Dimensions (W / H / D)	503 / 435 / 183 mm					
	Weight	16 kg					
	Operating temperature range	-25°C ... +60°C					
	Self-consumption (at night)	< 1 W					
	Topology	Non-isolated					
	Cooling concept	Natural Convection					
	Degree of protection (according to IEC 60529)	IP66					
	Climatic category (according to IEC 60721-3-4)	4K4H					
	Max. permissible value for relative humidity (non-condensing)	100 %					
	Max. operating altitude	3000 m					
Features	DC connection	Plug-in connector					
	AC connection	Plug-in connector					
	Mounting type	Wall-mount bracket					
	LED indicators (Status / Fault / Communication)	●					
	24/7 monitoring	●					
	Communication interface ¹	●/●/●/○ (RS485 /Wi-Fi/ LAN /4G)					
	Country of Manufacture	China					
	Certificates and approvals (more available on request)	CE, EN50549, G98/99, VDE-AR-N4105, AS/NZS 4777, C10/C11, VFR 2014 & UTE C15, IEC62109, IEC62116, IEC61727, IEC61683, IEC60068, IEC61000, NB/T 32004					

● Standard features / ○ optional features / – not available

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

Data at nominal conditions. All information is subject to change.

Version: Sep 2024



Three phase inverters 8 to 20 kW

ASW LT-G2 Pro Series



Models:

ASW8K-LT-G2 Pro

ASW10K-LT-G2 Pro

ASW12K-LT-G2 Pro

ASW15K-LT-G2 Pro

ASW17K-LT-G2 Pro

ASW20K-LT-G2 Pro



Easy-to-install

- Toolless DC connection via Phoenix Contact connectors
- Quick setup and commissioning with AiSWEI apps
- Compact wall mount design



Reliable

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



User-friendly

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

Technical Datasheet

ASW 8K-LT-G2 Pro ASW 10K-LT-G2 Pro ASW 12K-LT-G2 Pro ASW 15K-LT-G2 Pro ASW 17K-LT-G2 Pro ASW 20K-LT-G2 Pro

	ASW 8K-LT-G2 Pro	ASW 10K-LT-G2 Pro	ASW 12K-LT-G2 Pro	ASW 15K-LT-G2 Pro	ASW 17K-LT-G2 Pro	ASW 20K-LT-G2 Pro	
Input (DC)	Max. PV array power	12000 Wp STC	15000 Wp STC	18000 Wp STC	22500 Wp STC	30000 Wp STC	
	Max. input voltage	1100 V					
	MPP voltage range / rated input voltage	150 V to 1000 V / 630 V					
	Min. input voltage	125 V					
	Initial. feed-in voltage	180 V					
	Max. operating input current	20A / 16 A	20A / 16 A	32 A / 20 A	32 A / 20 A	32 A / 32 A	32 A / 32 A
	Max. short circuit current	30 A / 25 A	30 A / 25 A	48 A / 30 A	48 A / 30 A	48 A / 48 A	48 A / 48 A
	No. of independent MPPT inputs / strings per MPPT input	2 / A: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 power	8000 W	10000 W	12000 W	15000 W	17000 W	20000 W
	Max. apparent AC power	8800VA ^{3&4}	11000VA ^{3&4}	13200VA ^{3&4}	16500VA ^{3&4}	18700VA ^{3&4}	22000VA ^{3&4}
	AC nominal voltage	220 V / 380 V 230 V / 400 V 240 V / 415 V					
	AC voltage range	160 V to 300 V					
	AC grid frequency / range	50 Hz / 45 Hz to 55 Hz 60 Hz / 55 Hz to 65 Hz					
	Max. output current	12.8 A	16 A	19.1 A	24 A	27.1 A	31.9 A
	Adjustable power factor range	0.8 leading to 0.8 lagging					
	Feed-in phases	3 / 3-N-PE					
	Harmonic distortion (THD) at rated output	< 3 %					
	Efficiency & Protection	Max. efficiency / European efficiency	98.6 % / 98.2 %				
DC Switch		●					
Ground fault monitoring / grid monitoring		● / ●					
DC reverse polarity protection / AC short circuit protection		● / ●					
All-pole-sensitive residual-current monitoring unit		●					
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	17.3 kg	17.3 kg	17.3 kg	17.3 kg	18.6 kg	18.6 kg
	Operating temperature range	-25°C ... +60°C					
	Self-consumption (at night)	< 1 W					
	Topology	Transformerless					
	Cooling concept	Natural convection		Active cooling			
	Degree of protection (according to IEC 60529)	IP66					
	Climatic category (according to IEC 60721-3-4)	4K4H					
	Max. permissible value for relative humidity (non-condensing)	1					
	Max. operating altitude	3000 m					
Features	DC connection	Phoenix Contact					
	AC connection	Plug-in connector					
	Mounting type	Wall-mount bracket					
	LED indicators (Status / Fault / Communication)	●					
	Communication interface ^{1&2}	Wi-Fi / 4G / RS485 (Optional)					
	Certificates and approvals (more available on request)	CE, EN50549, IEC62109, IEC62116, IEC61727, IEC61683, IEC60068, IEC61000, AS/NZS4777, C10/C11					

● Standard features / ○ optional features / – not available

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

2- DRED supported with RS485 communication for Australia & New Zealand

3- The overload setting is disabled as default for AS/NZS4777 grid codes

4- For European and AS/NZS4777 grid codes the max. apparent AC power is equal to the rated power

Version: March 2022

