

Three-Phase String Inverters 8 to 20 kW

ASW LT Series



Models:

- ASW8K-LT-G2
- ASW10K-LT-G2
- ASW12K-LT-G2
- ASW13K-LT-G2
- ASW15K-LT-G2
- ASW17K-LT-G2
- ASW20K-LT-G2



Easy-to-install

- Quick & easy-to-install with basic tools
- Compact, wall mount and Plug-in Connector
- Quick Wi-Fi set up with app



Reliable

- International quality standards
- Optional SPD Module
- IP65 waterproof for outdoor use



User-friendly

- High DC/AC ratio up to 1.5
- Wide MPPT range 150V-1000V
- Dual MPPT for flexible installation

Technical Data Sheet

ASW 8K-LT-G2 ASW 10K-LT-G2 ASW 12K-LT-G2 ASW 13K-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	19500Wp STC	22500 Wp STC	25500 Wp STC	30000 Wp STC
	Max input voltage	1100 V						
	MPP voltage range / rated input voltage	150 V to 1000 V / 630 V						
	Min input voltage	125 V						
	Initial feed-in voltage	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	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	40 A / 40 A	
Number of independent MPP inputs / strings per MPP 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:1	2 / A:2;B:2	2 / A:2;B:2	
Output (AC)	Rated power	8000W	10000W	12000W	13000W	15000W	17000W	20000W
	Max apparent AC power	8000VA	10000VA	12000VA	13000VA	15000VA	17000VA	20000VA
	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						
	Rated grid frequency / rated grid voltage	50 Hz / 230 V						
	Max output current	12.8A	16 A	19.1 A	20.7A	24 A	27.1 A	31.9 A
	Power factor at rated power	1						
	Adjustable displacement power factor	0.8 overexcited to 0.8 underexcited						
	Feed-in phases	3						
	Harmonic distortion (THD) at rated output	<3%						
Efficiency & Protection	Max efficiency / European efficiency	98.6 % / 98.2 %						
	Input-side disconnection device	●						
	Ground fault monitoring / grid monitoring	● / ●						
	DC reverse polarity protection / AC short circuit current capability	● / ●						
	All-pole-sensitive residual-current monitoring unit	●						
	Protection class (according to IEC 62109-1) / overvoltage category (according to IEC 62109-1)	1/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	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	Active cooling						
	Degree of protection (according to IEC 60529)	IP65						
	Climatic category (according to IEC 60721-3-4)	4K4H						
	Max permissible value for relative humidity (non-condensing)	100 %						
	Max operating altitude	3000 m	3000 m	3000 m	3000 m	3000 m	3000 m	3000 m
Features	DC connection	Phoenix contact						
	AC connection	Plug-in Connector						
	Mounting type	Wall-mounting bracket						
	LED Indicators (Status / Fault / Communication)	●						
	Communication interface ^{1&2}	Wi-Fi / RS485						
	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

Version: June 2021

