

Three phase 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

- 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
- 13 A input current, ideal for bifacial and large area PV modules
- Wide MPP voltage range 150V-1000V

Technical Datasheet

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	180 V						
	Max. operating input current	26 A / 13 A	26 A / 13 A	26 A / 26 A	26 A / 26 A	26A/26A	26A/26A	26A/26A
Max. short circuit current	40 A / 20 A	40 A / 20 A	40 A / 40 A	40 A / 40 A	40A /40 A	40A/40A	40A/40A	
No. of independent MPPT inputs / strings per MPPT input	2 / A:1;B:1	2 / A:1;B:1	2 / A:2;B:1	2 / A:2;B:1	2/A:2;B:1	2 / A:2;B:2	2 / A:2;B:2	
Output (AC)	Rated power	8000 W	10000 W	12000 W	13000 W	15000 W	17000 W	20000 W
	Max. apparent AC power	8000 VA	10000 VA	12000 VA	13000 VA	15000 VA	17000 VA	20000 VA
	AC nominal voltage	220 V / 380 V 230 V / 400 V 240 V / 415 V						
	AC voltage range	160 V to 300 V						
	AC grid frequency / range	50 Hz / 45 Hz to 55 Hz 60 Hz / 55 Hz to 65 Hz						
	Max. output current	12.8 A	16 A	19.1 A	20.7 A	24 A	27.1 A	31.9 A
	Adjustable power factor range	0.8 leading to 0.8 lagging						
	Feed-in phases	3						
	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	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)	100 %						
	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	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

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

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