

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 connectors for reliable tool-free DC connection
- Compact wall mount design
- Fuse-free design thereby reducing BOS cost
- Setup, commissioning and monitoring via the Solplanet app



Higher Yields

- 150 % PV array oversizing for higher yields
- Up to 5 MPPT's 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



Reliable & Safe

- Type II AC & DC Surge Protection
- Integrated DC switches
- IP66 rated design for outdoor use

Technical Datasheet

ASW45K-LT-G3

ASW50K-LT-G3

ASW60K-LT-G3

Input (DC)	Max. PV array power	67500 Wp STC	75000 Wp STC	90000 Wp STC	
	Max. input voltage	1100 V			
	MPP voltage range / rated input voltage	200 V - 1000 V / 630 V			
	Min. input voltage	200 V			
	Initial. feed-in voltage	250 V			
	Max. operating input current	40 A / 32 A / 32 A / 40 A	40 A / 32 A / 32 A / 40 A / 32 A	40 A / 32 A / 32 A / 40 A / 32 A	
	Max. short circuit current	60 A / 48 A / 48 A / 60 A	60 A / 48 A / 48 A / 60 A / 48 A	60 A / 48 A / 48 A / 60 A / 48 A	
	No. of independent MPPT inputs / strings per MPPT input	4 / 2	5 / 2	5 / 2	
Output (AC)	Rated active power	45000 W	50000 W	60000 W	
	Rated apparent power	45000 VA	50000 VA	60000 VA	
	Max. apparent power	45000 VA	50000 VA	60000 VA	
	AC nominal voltage	220 V / 380 V 230 V / 400 V			
	AC voltage range	180 V to 305 V / 312 V to 528 V			
	AC grid frequency / range	50 Hz / 45 Hz to 55 Hz 60 Hz / 55 Hz to 65 Hz			
	Max. output current	75.2 A	83.6 A	95.3 A	
	Adjustable power factor range	0.8 leading to 0.8 lagging			
	Feed-in phases	3 / 3-N-PE			
	Harmonic distortion (THD) at rated output	< 3%			
	Efficiency & Protection	Max. efficiency / European efficiency	98.6% / 98.3%		
DC switch		●			
Ground fault monitoring / grid monitoring		● / ●			
DC reverse polarity protection / AC short circuit protection		● / ●			
All-pole-sensitive residual-current monitoring unit		●			
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	40 kg	43 kg	43 kg	
	Operating temperature range	-25°C ... +60°C			
	Self-consumption (at night)	< 1 W			
	Topology	Non-isolated			
	Cooling concept	Active cooling			
	Degree of protection (according to IEC 60529)	IP66			
	Climatic category (according to IEC 60721-3-4)	4K4H			
	Relative humidity (non-condensing)	100%			
	Max. operating altitude	4000 m			
Features	DC connection	Plug-in connector			
	AC connection	OT/DT Connector			
	Mounting type	Wall-mount bracket			
	LED indicators (Status / Fault / Communication)	●			
	Communication interface ⁸²	●/●/○/○ (RS485 / Wi-Fi/ LAN /4G)			
	Country of manufacture	China			
	Certificates and approvals (more available on request)	CE, IEC 62109-1/2, IEC 61727, IEC 62116, IEC61683, G98/G99, VDE4110, VED4105, EN50549-1/2			

● Standard features / ○ optional features / – not available

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

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

Version: Jan 2024.

