

Technical Datasheet

	ASW45K-LT-G3	ASW50K-LT-G3	ASW60K-LT-G3
Input (DC)	Max. PV array power	67500 Wp STC	75000 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
	Max. short circuit current	60 A / 48 A / 48 A / 60 A	60 A / 48 A / 48 A / 60 A / 48 A
	No. of independent MPPT inputs / strings per MPPT input	4 / 2	5 / 2
Output (AC)	Rated active power	45000 W	50000 W
	Rated apparent power	45000 VA	50000 VA
	Max. apparent power	45000 VA	50000 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
	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%	
	Max. efficiency / European efficiency	98.6% / 98.3%	
Efficiency & Protection	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	
	Sunspec protocol	●	
	Dimensions (W / H / D)	670 / 640 / 270 mm	
General data	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	
	Climatic category (according to IEC 60721-3-4)	4K4H	
	Relative humidity (non-condensing)	100%	
	Max. operating altitude	4000 m	
	DC connection	Plug-in connector	
Features	AC connection	OT/DT Connector	
	Mounting type	Wall-mount bracket	
	LED indicators (Status / Fault / Communication)	●	
	24/7 monitoring	●	
	Communication interface	●/●/●/○ (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, IEC 61683, G98/G99, VDE 4110, VED 4105, EN 50549-1/2	

● Standard features / ○ optional features / – not available

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

Version: Sep 2024.

