

Three phase inverters 40 to 50 kW

ASW LT-G2 Pro Series



Models:
ASW40K-LT-G2 Pro
ASW45K-LT-G2 Pro
ASW50K-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

- 16 A input current, ideal for bifacial and large area PV modules
- 5 MPPT's for flexible PV array design
- Wide MPP voltage range 200V-1000V

Technical Datasheet

ASW40K-LT-G2 Pro

ASW45K-LT-G2 Pro

ASW50K-LT-G2 Pro

Input (DC)	Max. PV array power	60000 Wp STC	67500 Wp STC	75000 Wp STC
	Max. input voltage	1100 V		
	MPP voltage range / rated input voltage	200 V to 1000 V / 620 V		
	Min. input voltage	200 V		
	Initial. feed-in voltage	250 V		
	Max. operating input current	32 A		
	Max. short circuit current	48 A		
	No. of independent MPPT inputs / strings per MPPT input	4 / 2	4 / 2	5 / 2
Output (AC)	Rated power	40000 W	45000 W	50000 W
	Max. apparent AC power	40000 VA	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	66.7 A	75.0 A	80.0 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	●		
	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)	670 / 580 / 270 mm		
	Weight	42.5 kg	42.5 kg	43 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)	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	OT 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, IEC61000, NB/T 32004		

● Standard features / ○ optional features / – not available
Data at nominal conditions. All information is subject to change.
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