

Three phase inverters 30 to 50 kW

ASW LT-G2 Series



Models:

ASW30K-LT-G2

ASW33K-LT-G2

ASW36K-LT-G2

ASW40K-LT-G2

ASW45K-LT-G2

ASW50K-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

- 13 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

ASW30K-
LT-G2

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ASW40K-
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ASW45K-
LT-G2

ASW50K-
LT-G2

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Input (DC)	Max. PV array power	45000 Wp STC	49500 Wp STC	54000 Wp STC	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 / 630 V					
	Min. input voltage	200 V					
	Initial. feed-in voltage	250 V					
	Max. operating input current	26 A					
	Max. short circuit current	40 A					
Output (AC)	No. of independent MPPT inputs / strings per MPPT input	3 / 2	3 / 2	3 / 2	4 / 2	4 / 2	5 / 2
	Rated power	30000 W	33000 W	36000 W	40000 W	45000 W	50000 W
	Max. apparent AC power	30000 VA	33000 VA	36000 VA	40000 VA	45000 VA	50000 VA
	AC nominal voltage	220 V / 380 V 230 V / 400 V					
	AC voltage range	180 to 305 V / 312 to 528 V					
	AC grid frequency / range	50 Hz / 45 Hz to 55 Hz 60 Hz / 55 Hz to 65 Hz					
	Max. output current	50.0 A	55.0 A	60.0 A	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 kg	42kg	42 kg	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)	100 %					
	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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