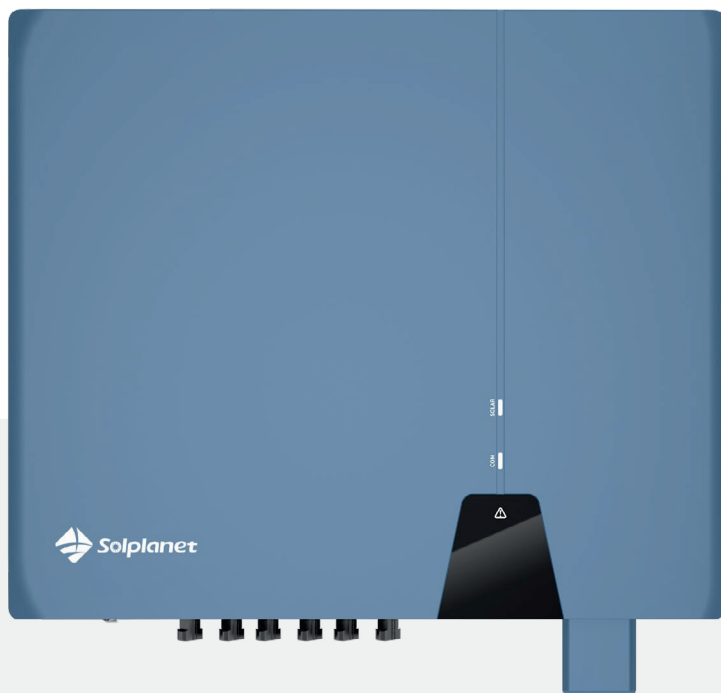


Three phase inverters 25 to 40 kW

ASW LT-G3 Series



Models:

ASW25K-LT-G3

ASW27K-LT-G3

ASW30K-LT-G3

ASW33K-LT-G3

ASW36K-LT-G3

ASW40K-LT-G3



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

- 20A input current, ideal for bifacial and large area PV modules
- 3 MPPT's for flexible PV array design
- Wide MPP voltage range 180V-1000V

Technical Datasheet

ASW 25K-LT-G3 ASW 27K-LT-G3 ASW 30K-LT-G3 ASW 33K-LT-G3 ASW 36K-LT-G3 ASW 40K-LT-G3

Input (DC)	Max. PV array power	37500 Wp STC	40500 Wp STC	45000 Wp STC	49500 Wp STC	54000 Wp STC	60000 Wp STC
	Max. input voltage	1100 V					
	MPP voltage range / rated input voltage	180 V to 1000 V / 630 V					
	Min. input voltage	160 V					
	Initial. feed-in voltage	200 V					
	Max. operating input current	32 A / 32 A / 32 A			32 A / 32 A / 40 A		
	Max. short circuit current	48 A / 48 A / 48 A			48 A / 48 A / 60 A		
	No. of independent MPPT inputs / strings per MPPT input	3 / A:2;B:2;C:2			3 / A:2;B:2;C:2		
Output (AC)	Rated power	25000 W	27000 W	30000 W	33000 W	36000 W	40000 W
	Max. apparent AC power	27500 VA ^{38,4}	29700 VA ^{38,4}	33000 VA ^{38,4}	36300 VA ^{38,4}	39600 VA ^{38,4}	44000 VA ^{38,4}
	AC nominal voltage	220 V / 380 V 230 V / 400 V 240 V / 415 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	39.9 A	43.0 A	47.8 A	52.6 A	57.4 A	63.8 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 % / 98.2 %				
DC Switch		●					
Ground fault monitoring / grid monitoring		● / ●					
DC reverse polarity protection / AC short circuit protection		● / ●					
All-pole-sensitive residual-current monitoring unit		●					
Lightning protection		●					
Anti-islanding Protection		●					
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)	543 / 463 / 225 mm					
	Weight	29 kg	29 kg	29 kg	30 kg	30 kg	30 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	Plug-in connector					
	Mounting type	Wall-mount bracket					
	LED indicators (Status / Fault / Communication)	●					
	Communication interface ^{1&2}	Wi-Fi / 4G / RS485 (Optional)					
	Certificates and approvals (more available on request)	CE, EN50549 ,IEC62109, IEC62116, IEC61727, IEC61000, NB/T 32004					

● 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

3- The overload setting is disabled as default for AS/NZS4777 grid codes

4- For European and AS/NZS4777 grid codes the max. apparent AC power is equal to the rated power

Version: March 2022

