

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

- Quick & easy-to-instal with basic tools
- Quick setup and commissioning with Solplanet 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 MPPTs for flexible PV array design
- Wide MPP voltage range 180V-1000V
- ShadeSol shadow management

Technical Datasheet

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 - 1000 V / 630 V					
	Min. input voltage	160 V					
	Initial. feed-in voltage	200 V					
	Max. operating input current	32A / 32 A /32A			32A / 32 A /40A		
	Max. short circuit current	48 A / 48A /48A			48 A / 48A /60A		
	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 active power	25000W	27000W	30000W	33000W	36000W	40000W
	Rated apparent power	25000 VA	27000 VA	30000 VA	33000 VA	36000 VA	40000 VA
	Max. apparent power	25000 VA	27000 VA	30000 VA	33000 VA	36000 VA	40000 VA
	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 528V					
	AC grid frequency / range	50 Hz / 45 Hz to 55 Hz 60 Hz / 55 Hz to 65 Hz					
	Max. output current	39.9A	43.0A	47.8A	52.6A	57.4A	63.8A
	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	98.4% / 98.2%					
	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	●					
	Night monitoring	●					
	Surge protection	● / Type II					
	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 / 520 / 235 mm					
	Weight	29 kg			30 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					
	Max. permissible value for relative humidity (non-condensing)	100 %					
	Max. operating altitude	3000 m					
Features	DC connection	Plug-in connector					
	AC connection	Plug-in connector					
	Mounting type	Wall-mount bracket					
	LED Indicators (Status / Fault / Communication)	●					
	Communication interface¹	●/●/○/○ (RS485 /Wi-Fi/ LAN /4G)					
	Country of manufacture	China					
	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

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		
Efficiency & Protection	Feed-in phases	3 / 3-N-PE		
	Harmonic distortion (THD) at rated output	< 3%		
	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	●		
	Arc fault circuit interrupter (AFCI)	○		
General data	Anti-islanding Protection	●		
	Night monitoring	●		
	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		
	Weight	42.5 kg		
	Operating temperature range	-25°C ... +60°C		
Features	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		
	AC connection	OT/DT Connector		
	Mounting type	Wall-mount bracket		
	LED indicators (Status / Fault / Communication)	●		
	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,IEC61683,G98/G99,VDE4110,VED4105,EN50549-1/2		

● Standard features / ○ optional features / – not available