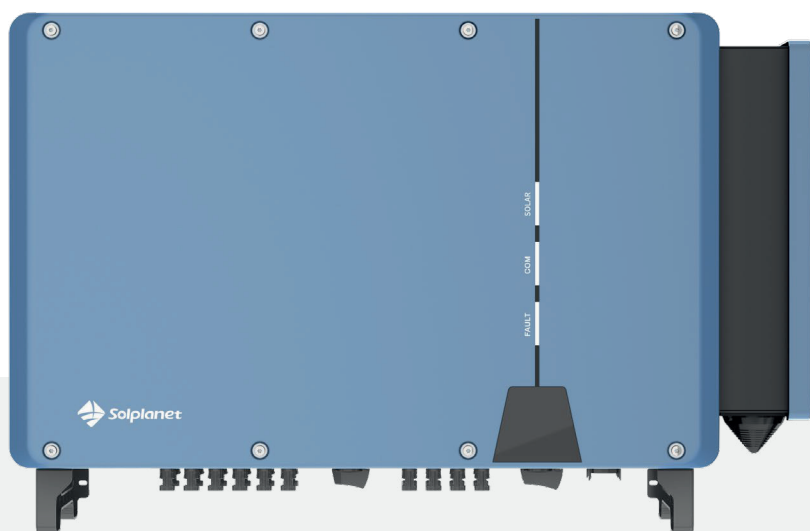


Three phase inverters 80 to 110 kW

# ASW LT Series

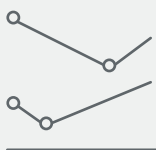


Models:  
ASW80K-LT  
ASW100K-LT  
ASW110K-LT



## Easy-to-install

- Toolless DC connection via Phoenix Contact connectors
- Type II surge protection DC and AC
- IP66 rated design for outdoor use



## Higher Yields

- 150 % PV array oversizing for higher yields
- "ShadeSol" shadow management function
- 16 A input current per string, ideal for bifacial and large area PV modules
- 10 MPPT's for flexible PV array design



## User-friendly

- 24/7 system monitoring
- Quick setup and commissioning with Solplanet apps
- Fuse free design with string-level management

# Technical Datasheet

ASW 80K-LT

ASW 100K-LT

ASW 110K-LT

	ASW 80K-LT	ASW 100K-LT	ASW 110K-LT	
Input (DC)	Max. PV array power	120000 Wp STC	150000 Wp STC	165000 Wp STC
	Max. input voltage	1100 V		
	MPP voltage range / rated input voltage	200V - 1000 V / 630 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	8/2	10/2	10/2
Output (AC)	Rated active power	80000 W	100000 W	110000 W
	Max. apparent AC power	88000 VA	110000 VA <sup>1</sup>	121000 VA <sup>1</sup>
	AC nominal voltage	220 V / 380 V 230 V / 400 V		
	AC voltage range	312 V - 528 V		
	AC grid frequency / range	50 Hz / 45 Hz - 55 Hz 60 Hz / 55 Hz - 65 Hz		
	Nominal AC output current	115.8 A	144.3 A	158.8 A
	Max. AC output current	127.0 A	158.8 A	174.7 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 % / 98.4 %	
DC switch		●		
Ground fault monitoring / grid monitoring		● / ●		
DC reverse polarity protection / AC short circuit protection		●		
AC Overcurrent Protection		●		
DC Surge Protection		Type II		
AC Surge Protection		Type II		
All pole sensitive residual current monitoring unit		●		
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)	984/ 640 / 330 mm		
	Weight	85 kg		
	Operating temperature range	-25°C ... +60°C		
	Self-consumption (at night)	< 3 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	4000 m		
	EMC	Class B		
Features	DC connection	Phoenix Contact		
	AC connection	OT/DT Terminal (Max.240mm <sup>2</sup> )		
	LED indicators (Status / Fault / Communication)	●		
	Communication interface (RS485/ WiFi /4G)	● / ● / O		
	Modbus sunspec protocol <sup>2</sup>	●		
	Certificates and approvals (more available on request)	CE, EN50549, IEC62109, IEC62116, IEC61727, IEC61683, IEC61000, AS/NZS4777, C10/C11,G99		

● standard features ○ optional features

Data at nominal conditions. All information is subject to change.

1- Overload setting is disabled as default for EU and AS/NZS4777 grid codes, rated active power equals the max. apparent AC power

2- Sunspec 100 and 700 series protocols are supported

Version: July 2022

