

Three phase string inverters 50 kW

# ASW 50K LT



Model:  
ASW50K-LT



## Easy-to-install

- Quick & easy-to-install with basic tools
- Double grip and wall mount fixture
- Quick AiCom set up with RS485 cables and Wi-Fi to app



## Reliable

- International quality standards
- Integrated large range DC/AC switch
- IP65 waterproof for outdoor use



## User-friendly

- 3 MPPTs for better yield also in string mismatch
- Practical design that fits anywhere
- Smart string monitoring

# Technical Data Sheet

ASW50K-LT

Input (DC)	Max PV array power	62500 Wp STC
	Max input voltage	1000 V
	MPP voltage range / rated input voltage	200 V to 950 V / 625 V
	Min input voltage	200 V
	Initial feed-in voltage	300 V
	Max operating input current	30 A / 30 A / 40 A
	Max short circuit current	36 A / 36 A / 48 A
	Number of independent MPP inputs / strings per MPP input	3 / A: 3; B: 3; C:4
Output (AC)	Rated power	50000 W
	Max apparent AC power	55000 VA
	AC nominal voltage	220 V / 380 V - 230 V / 400 V
	AC voltage range	160 V to 300 V
	AC grid frequency / range	50 Hz/ 45 Hz to 55 Hz – 60 Hz/55 Hz to 65 Hz
	Rated grid frequency / rated grid voltage	50 Hz / 230 V
	Max output current / Rated output current	80 A / 75.8 A
	Power factor at rated power /adjustable displacement power factor	1 / 0.8 overexcited to 0.8 underexcited
	Feed-in phases / AC connection	3 / 3-N-PE
	Harmonic distortion (THD) at rated output	< =3 %
Efficiency & Protection	Max efficiency / European efficiency	> 98.6 % / > 98 %
	Input-side disconnection device	●
	Ground fault monitoring / grid monitoring	● / ●
	DC reverse polarity protection / AC short circuit current capability	● / ●
	All-pole-sensitive residual-current monitoring unit	●
	Smart string monitoring	●
	DC surge arrester (Type II) / AC surge protection	●
	Protection class(according to IEC 62109-1) / overvoltage category (according to IEC 62109-1)	1/AC: III; DC :II
General data	Dimensions (W / H / D)	510/790/265 mm
	Weight	63 kg
	Operating temperature range	-25°C – +60°C
	Noise emission (typical)	< 60 dB(A)
	Self-consumption (at night)	<1W
	Topology	Transformerless
	Cooling concept	Forced convection
	Degree of protection (according to IEC 60529)	IP65
	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	H4
	AC connection	Terminal block
	Mounting type	Wall-mounting bracket
	Display	Graphic
	LED Indicators (Status / Fault/ Communication)	●
	Interface: 2 x RS485 / Modbus data protocol	●
	Anti-PID	○
	Certificates and approvals (more available on request)	CE, EN50549 ,IEC62109, IEC62116, IEC61727, IEC61683, IEC60068, IEC61000, NB/T 32004

● Standard features / ○ optional features / – not available

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