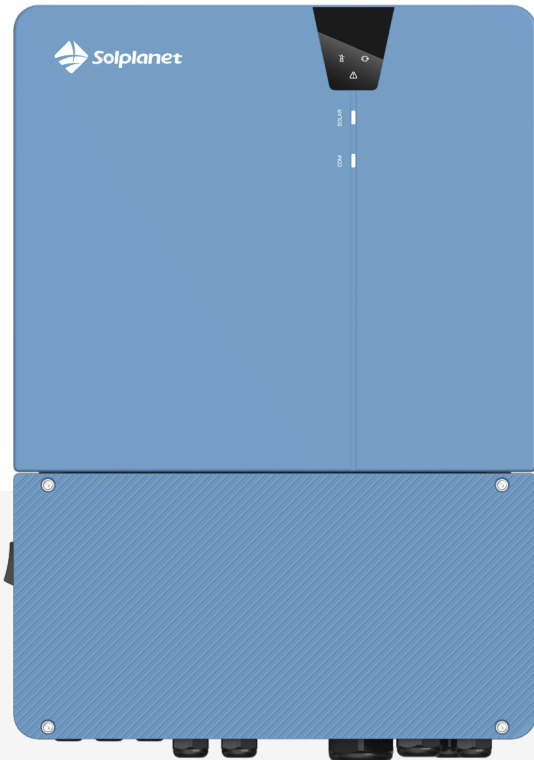


Single phase hybrid inverters 8 to 10 kW

ASW SH Series



Models:
ASW008K-SH
ASW010K-SH



Optimal performance

- 3 independent MPPTs for flexible and optimized large PV array design
- Max. 20 A input current per MPPT, ideal for bifacial and large area PV modules
- Up to 200% PV array oversizing for higher energy yields
- ShadeSol shadow management



Safe & Reliable

- UPS-level switching time < 10 ms
- IP66 rated design for indoor and outdoor use
- Up to 200% power output for 10s during power outages
- Multi-source design for black start, integrating PV, battery, and generator



User-friendly

- Expandable up to 30 kW in on-grid and off-grid mode
- Compatible with both lead-acid and lithium batteries
- Smart setup, commissioning and monitoring via Solplanet App

Technical Datasheet

ASW008K-SH

ASW010K-SH

PV input	Max. PV array power	16000 Wp	20000 Wp
	Max. input voltage	550 V	
	MPP voltage range / rated input voltage	40~530 V / 380 V	
	Min. input voltage / start voltage	40 V / 50 V	
	No. of independent MPPT trackers / strings per MPPT input	3 / 1	
	Max. input current / Max. power per MPP tracker	20 A / 10000 W	20 A / 10000 W
	Max. short-circuit current per MPP tracker	25 A	
Battery input	Battery voltage range	40 V to 60V	
	Max. charge / discharge power	8000 W	10000 W
	Max. charge current / Max. discharge current	190 A	210 A
	Battery type	LiFePO4 / Lead-acid	
AC output	AC voltage range / Nominal AC voltage	154 V to 276 V / 220, 230, 240, L/N	
	Rated AC grid frequency	50 Hz / 60 Hz	
	AC grid frequency range	45~55 Hz / 55~65 Hz	
	Rated apparent power	8000 VA	10000 VA
	Max. apparent power	8000 VA	10000 VA
	Rated grid output current (@230 V)	34.8 A	43.5 A
	Max. grid output current (@230 V)	38.3 A	47.8 A
	Harmonic distortion (THD) at rated output	< 3 % (of nominal power)	
	Power factor at rated power / adjustable range	1 / 0.8 leading to 0.8 lagging	
AC input	Nominal AC voltage	220, 230, 240 V, L/N	
	Rated grid frequency	50 Hz / 60 Hz	
	Max. input power from grid	16000 W	18000 W
	Max. input current from grid	69.6 A	78.3 A
EPS output	Nominal AC voltage	220, 230, 240 V, L/N	
	Nominal output frequency	50 Hz / 60 Hz	
	Rated apparent power	8000 VA	10000 VA
	Peak output apparent power (off-grid up to 10s)	16000 VA	20000 VA
	Rated current (@230 V)	34.8 A	43.5 A
	Max. current (@230 V, continuous on-grid / off-grid)	38.3 A	47.8 A
	Max. switch time	< 10 ms	
	Output THDv (@ Linear load)	2 %	
Generator side	Max. input apparent power	8000 VA	10000 VA
	Max. charge / discharge power	8000 VA	10000 VA
	Max. input current	36.4 A	45.5 A
	Rated AC voltage	220, 230, 240 V, L/N	
	Rated AC frequency	50 Hz / 60 Hz	
Efficiency	MPPT efficiency	99.9 %	
	European efficiency / Max. efficiency	97 % / 97.6 %	
Safety protection	Surge protection	● / Type II	
	Insulation resistance detection	●	
	PV string input reverse polarity protection	●	
	Ground fault monitoring	●	
	Residual current monitoring unit	●	
	AC short circuit protection	●	
	Anti-islanding protection	●	
General data	Dimensions (W / H / D)	484 / 679 / 230 mm	
	Weight	34.5 kg	
	Operating temperature range	-25 °C ... +60 °C	
	Cooling concept	Smart cooling	
	Degree of protection (as per IEC 60529)	IP66	
	Max. relative humidity	100 %	
	Max. operating altitude	3000 m	
Features	User interface	LED & App	
	BMS interface	CAN	
	Communication interfaces	Dongle: WiFi (2.4 GHz) / LAN (100 Mbps) Inverter: RS485 (ModBus RTU), LAN (100Mbps, Modbus TCP only)	
	Digital output (dry contact) / No. of outputs	● / 2	
	Digital input (dry contact) / No. of inputs	● / 6	
	Integrated power control / export power control	● / ●	

● standard features ○ optional features

Version: Feb.2025

