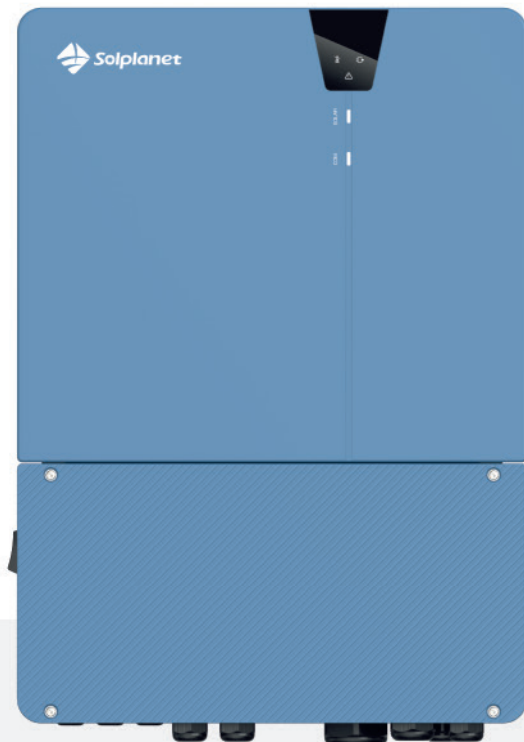


ASW SH Series



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 V - 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 / 9999 W		20 A / 9999 W	
	Max. short-circuit current per MPP tracker	25 A			
Battery input	Battery voltage range	40 V - 60 V			
	Max. charge / discharge power	8000 W		9999 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 - 276 V / 220 , 230 , 240 L/N			
	Rated AC grid frequency	50 Hz / 60 Hz			
	AC grid frequency range	45 Hz - 55 Hz / 55 Hz - 65 Hz			
	Rated apparent power	8000 VA		9999 VA	
	Max. apparent power	8000 VA		9999 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 - 0.8 lagging			
AC input	Nominal AC voltage	220 V / 230 V / 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 V / 230 V / 240 V L/N			
	Nominal output frequency	50 Hz / 60 Hz			
	Rated apparent power	8000 VA		9999 VA	
	Peak output apparent power (off-grid up to 10s)	16000 VA		19998 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		9999 VA	
	Max. charge / discharge power	8000 VA		9999 VA	
	Max. input current	36.4 A		45.5 A	
	Rated AC voltage	220V / 230 V / 240 V L/N			
	Rated AC frequency	50 Hz / 60 Hz			
Efficiency	MPPT efficiency	99.9 %			
	European efficiency / Max. efficiency	97.0 % / 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: Wi-Fi (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 / - not available