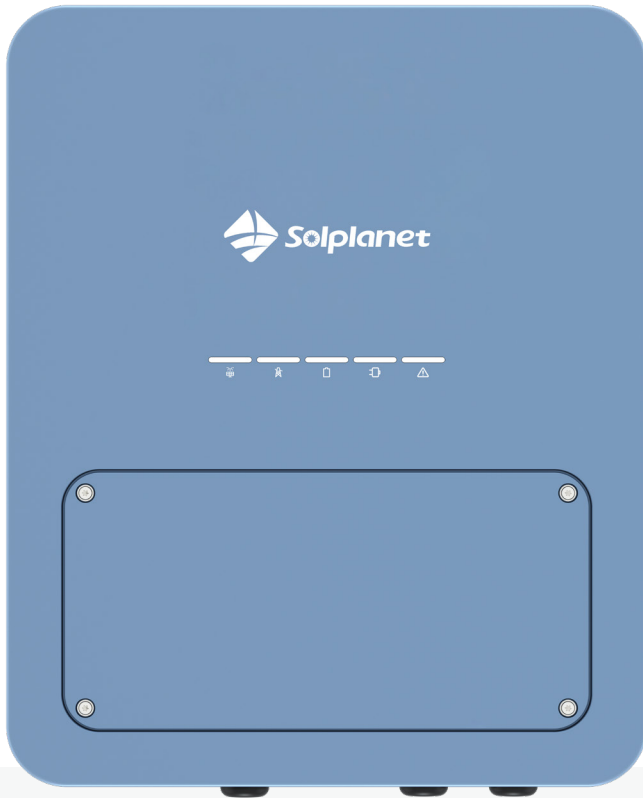


Single phase hybrid inverters 3 to 6 kW

ASW SH Series



Models:

ASW003K-SH-AU

ASW3.68K-SH-AU

ASW004K-SH-AU

ASW005K-SH-AU

ASW006K-SH-AU



Optimal performance

- 2 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 seamless switch
- IP66 rated design for indoor and outdoor use
- Up to 200% for 10 seconds during power outages
- Multi-source design for black start, integrating PV, battery, and generator



User-Friendly

- Replaceable SPD module for easier maintenance
- Dynamic tariff to unlock savings
- Modbus TCP/IP unites inverters for smart energy control
- Smart setup, commissioning and monitoring via Solplanet's App; one-click OTA update
- Expandable up to 18 kW in on-grid and off-grid mode

Technical Datasheet		ASW003K-SH-AU	ASW3.68K-SH-AU	ASW004K-SH-AU	ASW005K-SH-AU	ASW006K-SH-AU
PV input	Max. PV array power	6000 Wp	7360 Wp	8000 Wp	10000 Wp	12000 Wp
	Max. input power (PV1 / PV2)	3000 W / 3000 W	3680 W / 3680 W	4000 W / 4000 W	5000 W / 5000 W	6000 W / 6000 W
	Max. input voltage	550 V				
	MPP voltage range / rated input voltage	40 V - 550 V / 380 V				
	Min. input voltage / start voltage	40 V / 50 V				
	No. of independent MPPT trackers / strings per MPPT input	2 / 1				
	Max. input current	20 A				
	Max. short-circuit current per MPP tracker	25 A				
Battery input	Battery voltage range	40 V - 60 V				
	Max. charge / discharge power	3000 W / 3000 W	3680 W / 3680 W	4000 W / 4000 W	5000 W / 5000 W	6000 W / 6000 W
	Max. charge / discharge current	75 A / 75 A	90 A / 90 A	100 A / 100 A	120 A / 120 A	135 A / 135 A
	Cell type	LiFePO4 / Lead-acid				
Grid port	Max. input power from grid ¹	6000 W	7368 W	8000 W	10000 W	12000 W
	Max. input current from grid	26.1 A	32.0 A	34.8 A	43.4 A	52.1 A
	Rated grid voltage	220 V / 230 V / 240 V L/N				
	AC voltage range	154 V - 276 V				
	Rated AC grid frequency	50 Hz / 60 Hz				
	AC grid frequency range	45 Hz - 55 Hz / 55 Hz - 65 Hz				
	Rated output apparent power	3000 VA	3680 VA	4000 VA	4999 VA	6000 VA
	Max. output apparent power	3000 VA	3680 VA	4000 VA	4999 VA	6000 VA
	Rated grid output current (@230 V)	13.0 A	16.0 A	17.4 A	21.7 A	26.1 A
	Max. grid output current (@230 V)	14.3 A	17.6 A	19.1 A	23.9 A	28.7 A
	Harmonics THDi	< 3 % (of nominal power)				
	EPS port	Nominal output voltage	220 V / 230 V / 240 V L/N			
Nominal output frequency		50 Hz / 60 Hz				
Rated apparent power		3000 VA	3680 VA	4000 VA	5000 VA	6000 VA
Peak output apparent power (off-grid up to 10s)		200 %, 10 s				
Rated current (@230 V)		13.0 A	16.0 A	17.4 A	21.7 A	26.1 A
Max. current (@230 V, continuous on-grid / off-grid)		14.3 A	17.6 A	19.1 A	23.9 A	28.7 A
Max. switch time		< 10 ms				
Output THDv (@ Linear load)		2 %				
Generator side	Max. input apparent power	3300 VA	4048 VA	4400 VA	5500 VA	6000 VA
	Max. input current	14.3 A	17.6 A	19.1 A	23.9 A	28.7 A
	Rated AC voltage	220 V / 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	●				
	AC over-current protection	●				
	Anti-islanding protection	●				
	Arc fault circuit interrupter (AFCI)	○				
	Over-voltage category	DC: Type II; AC: Type III				
General data	Power factor at rated power / adjustable displacement	1 / 0.8 leading - 0.8 lagging				
	Dimensions (W / H / D)	425 / 520 / 210 mm				
	Weight	22.0 kg				
	Noise emission	typical < 30 dB				typical < 35 dB
	Operating temperature range	-25 °C ~ 60 °C				
	Cooling concept	Natural convection			Smart cooling	
	Degree of protection (as per IEC 60529)	IP66				
	Max. relative humidity	100 %				
	Max. operating altitude	3000 m				
Features	HMI	APP; LCD / LED				
	BMS interface	CAN				
	Internet 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	● / ●				

Note:

1.This value represents the maximum and can be reduced via the Solplanet App based on different market requirements.

