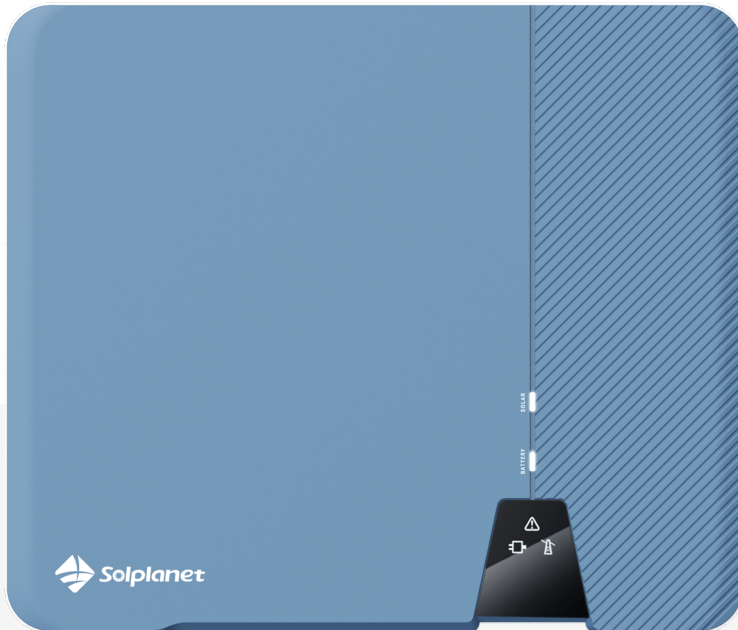


Single phase hybrid inverters 3kW to 5kW

ASW H-S Series



Models:

ASW3000H-S

ASW3680H-S

ASW4000H-S

ASW5000H-S



Easy-to-install

- Quick installation with standard tools
- Easy connection and monitoring with Solplanet App



Reliable

- Galvanically isolated
- Low voltage battery
- Safe and reliable
- Smart energy management and emergency power supply



User-friendly

- Discrete design for both indoor or outdoor use (IP65)
- Quick Wi-Fi connection & user-friendly app

Technical Data Sheet		ASW3000H-S	ASW3680H-S	ASW4000H-S	ASW5000H-S
Input (DC)	Max PV array power	5500 Wp STC	6180 Wp STC	6500 Wp STC	7500 Wp STC
	Max input voltage	550 V			
	MPP voltage range / rated input voltage	100 V to 530 V / 380 V			
	Min input voltage / start voltage	100 V / 125 V			
	Number of independent MPP trackers / strings per MPP input	2 / (1/1)			
	Max input current / per MPP tracker	12 A			
Battery input (DC)	Battery type	Li-ion battery			
	Nominal battery voltage	48 V			
	Battery voltage range	40 V to 60 V			
	Max charging power	2500 W			
	Max discharging power	2500 W			
	Max charging current / Max discharging current	50 A			
AC output (on-grid)	AC nominal power	3000 W	3680 W	4000 W	5000 W
	Max AC apparent power to Utility Grid	3000 VA	3680 VA	4000 VA	5000 VA*1
	AC voltage range / Nominal AC voltage	180 V to 280 V / 230 V			
	Rated AC grid frequency	50 Hz / 60 Hz			
	AC grid frequency / range	±5Hz			
	Max AC current	13.6 A	16 A	18.2 A	22.7 A*2
	Power factor at rated power / adjustable displacement	> 0.99 / 0.8 leading ... 0.8 lagging			
	Harmonics THDi (@ Nominal power)	< 3%			
EPS output	Max output apparent power	2500 VA			
	Peak output apparent power	3500 VA, 10s			
	Nominal output voltage	230 V			
	Nominal output frequency	50 Hz / 60 Hz			
	Max output current	12 A			
	Max switch time	100 ms			
	Output THDv (@ Linear load)	<3%			
Efficiency	MPPT efficiency	99.90%			
	Euro efficiency / Max efficiency	97% / 97.6%			
	Max battery to load efficiency	94.70%			
Safety protection	DC-side disconnection device	●			
	PV string- / Battery input reverse polarity protection	● / ●			
	All-pole sensitive residual current monitoring unit	●			
	Anti-islanding protection	●			
	Ground fault protection	●			
	AC output over current / short circuit current protection	● / ●			
	AC over voltage protection	●			
	Protection class (as per IEC 62109-1) / overvoltage category (as per IEC 62109-1)	I / AC: III; DC: II			
General data	Dimensions (W / H / D)	494 / 420 / 195 mm			
	Device weight	21.5 kg			
	Operating temperature range	-25 °C ... +60 °C			
	Noise emissions (typical)	21 dB(A)			
	Standby consumption	< 10 W			
	Topology	Isolated			
	Cooling concept	Natural convection			
	Degree of protection (as per IEC 60529)	IP65			
	Climatic category (according to IEC 60721-3-4)	4K4H			
	Max permissible value for relative humidity (non-condensing)	100.00%			
	Max operating altitude	4000m (>3000m power derating)			
Features	User interface	LED & App			
	Communication with BMS	RS485 / CAN			
	Communication with meter	RS485			
	Communication with portal	WIFI			
	Other communication	DRM			
	Integrated power control / Zero export control	● / ●			

● Standard features / ○ optional features / - not available
Version: April 2021

*1 For VDE-AR-N4105, S_{max}=4600VA

*2 For AS/NZS4777.2:2015, I_{ac max}=21.7A