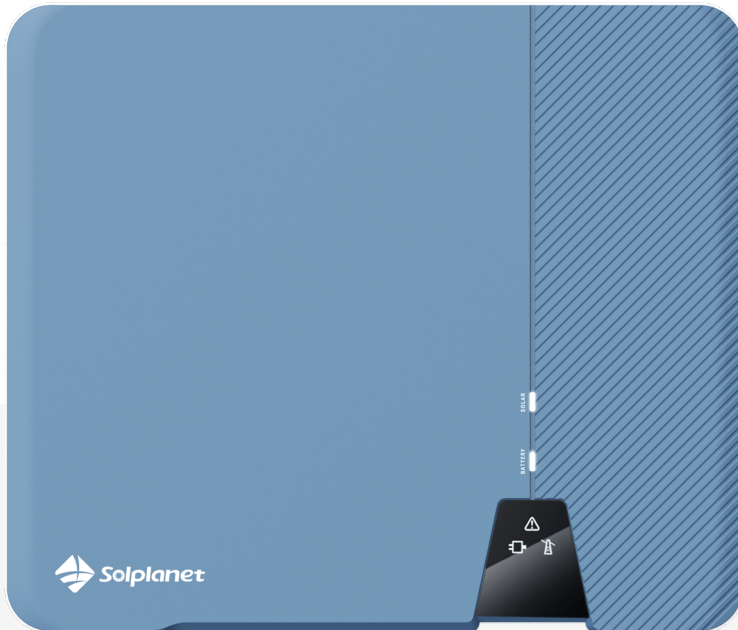


Single phase hybrid inverters 3 to 5 kW

ASW H-S Series



Models:

ASW3000H-S

ASW3680H-S

ASW4000H-S

ASW5000H-S



reddot winner 2021



Easy-to-install

- Toolless DC connection via Phoenix Contact connectors
- Quick setup and commissioning with AiSWEI apps
- Compact wall mount design



Reliable

- Smart energy management
- UPS capability - power during blackouts
- IP66 rated design for outdoor use



User-friendly

- User friendly app interface
- Online monitoring via Wi-Fi and AiSWEI apps
- Easy to connect - battery and smart meter interfaces

Input (DC)	Max. PV array power	6000 Wp STC		6680 Wp STC		7000 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							
	No. of independent MPPT trackers / strings per MPPT input	2 / (1/1)							
	Max. input current per MPPT tracker	12 A							
Battery input (DC)	Nominal battery voltage	48 V							
	Battery voltage range	40 V to 60 V							
	Max. charging power	3000 W							
	Max. discharging power	3000 W							
	Max. charging current / Max. discharging current	63 A							
	Battery type	Li-Ion							
AC output (Grid output/input)	AC nominal power	3000 W		3680 W		4000 W		5000 W*1	
	Max. AC apparent power to Utility Grid	3000 VA		3680 VA		4000 VA		5000 VA*2	
	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	±5 Hz							
	Max. grid output current	13.6 A		16 A		18.2 A		22.7 A*3	
	Power factor at rated power / adjustable displacement	0.8 leading to 0.8 lagging							
	Harmonics THDi (@ Nominal power)	< 3 %							
	Max. grid input apparent power	6000 VA							
	Max. grid input current	a.c. 27.3A							
	EPS output	Max. output apparent power	3000 VA						
Peak output apparent power		4500 VA, 10s							
Nominal output voltage		230 V							
Nominal output frequency		50 Hz / 60 Hz							
Max. output current		a.c. 13.7A							
Max. switch time		10ms							
Output THDi (@ 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 switch	●							
	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							
	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						
BMS interface		RS485 / CAN							
Meter interface		RS485							
Other interfaces		DRM							
Integrated power control / export power control		● / ●							

● Standard features / ○ optional features / – not available

*1 Nominal AC power set to 4600 W for VDE-AR-4105 grid code

*2 Apparent power set to 4600 W for VDE-AR-4105 grid code

*3 Max. output current limited to 21.7 A when set to the AS/NZS 4777.2 grid code. Version: November 2021