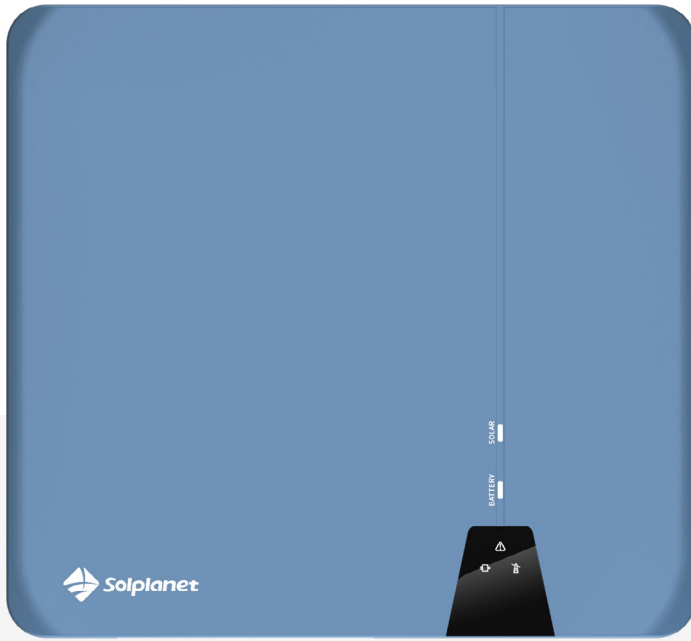


Single phase hybrid inverters 3 to 6 kW

# ASW H-S2 Series



Models:

ASW3000H-S2  
ASW3680H-S2  
ASW4000H-S2  
ASW5000H-S2  
ASW6000H-S2



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

# Technical Data Sheet

ASW3000H-S2 ASW3680H-S2 ASW4000H-S2 ASW5000H-S2 ASW6000H-S2

	5500 Wp STC	6180 Wp STC	6500 Wp STC	7500 Wp STC	9000 Wp STC		
PV Input	Max. PV array power		5500 Wp STC	6180 Wp STC	6500 Wp STC	7500 Wp STC	9000 Wp STC
	Max. input voltage		550 V				
	MPP voltage range / rated input voltage		40 V to 530 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 per MPP tracker		16 A				
	Max. short-circuit current per MPP tracker		20 A				
Battery input	Nominal battery voltage		48 V				
	Battery voltage range		40 V to 60 V				
	Max. charging / discharging power		5000 W / 5000 W				
	Max. charging current / Max. discharging current		100 A / 100 A				
	Battery type		Li-Ion				
	Compatible Battery		Aiswei Ai-LB series				
AC output	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		50 Hz±5Hz / 60 Hz±5Hz				
	Rated active power	3000 W	3680 W	4000 W	5000 W*1	6000 W	
	Rated apparent power	3000 VA	3680 VA	4000 VA	5000 VA*1	6000 VA	
	Max. apparent power	3000 VA	3680 VA	4000 VA	5000 VA*1	6000 VA	
	Rated grid output Current (@230V)	13.1 A	16 A	17.4 A	21.7 A*2	26.1 A	
	Max. grid output current	13.6 A	16 A	18.2 A	22.7 A*2	27.3 A	
	Harmonics THDi (@ Nominal power)		< 3%				
	AC input	Rated grid voltage		a.c. 230V			
Rated grid frequency		50Hz / 60Hz					
Rated apparent power		6000 VA					
Max. input apparent power from grid		6000 VA					
Rated input current from grid		a.c. 26.1 A					
Max. input current from grid		a.c. 27.3 A					
EPS output	Nominal output voltage		230 V				
	Nominal output frequency		50 Hz / 60 Hz				
	Rated apparent power		5000 VA				
	Max. output apparent power		5000 VA				
	Peak output apparent power		7500 VA, 10s				
	Rated Current (@230V)		26.1 A				
	Max. output current		22.7 A				
	Max. switch time		≤ 10 ms				
	Output THDi (@ Linear load)		< 3%				
Efficiency	MPPT efficiency		99.9%				
	Euro efficiency / Max. efficiency		97% / 97.6%				
	Max. battery to load efficiency		94.7%				
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	Power factor at rated power / adjustable displacement		≥0.99 / 0.8 leading to 0.8 lagging				
	Dimensions (W / H / D)		494 / 420 / 195 mm				
	Device weight		21.5 kg				
	Operating temperature range		-25 °C ... +60 °C				
	Noise emissions (typical)		30 dB(A)				
	Standby consumption		< 10 W				
	Cooling concept		Natural convection				
	Degree of protection (as per IEC 60529)		IP66				
	Climatic category (according to IEC 60721-3-4)		4K4H				
	Max. permissible value for relative humidity (non-condensing)		100%				
	Max. operating altitude		4000m (>3000m power derating)				
	Country of Manufacture		THE PEOPLE'S REPUBLIC OF CHINA				
Features	User interface		LED & App				
	Communication with BMS		RS485 / CAN				
	Communication with meter		RS485				
	Communication with portal		WIFI stick				
	Other communication		DRM				
	Integrated power control / Zero export control		● / ●				

● Standard features / ○ optional features / – not available

\*1 For VDE-AR-N4105, Smax=S<sub>n</sub>=4600VA, P<sub>n</sub>=4600W

\*2 For AS/NZS4777.2, I<sub>ac max</sub>=21.7

Version: March 2022

