

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

Technical Data Sheet

		ASW3000H-S	ASW3680H-S	ASW4000H-S	ASW5000H-S
PV Input	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			
	Max. input current per MPP tracker	12 A			
	Max. short-circuit current per MPP tracker	15 A			
Battery input	Nominal battery voltage	48 V			
	Battery voltage range	40 V to 60 V			
	Max. charging / discharging power	3000 W / 3000 W			
	Max. charging current / Max. discharging current	63 A / 63 A			
	Battery type	Li-Ion			
AC output	Compatible Battery	Aiswei Ai-LB series			
	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
	Rated apparent power	3000 VA	3680 VA	4000 VA	5000 VA*2
	Max. apparent power	3000 VA	3680 VA	4000 VA	5000 VA*2
	Rated grid output Current (@230V)	13.6 A	16 A	18.2 A	21.7 A
	Max. grid output current	13.6 A	16 A	18.2 A	21.7 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			
EPS output	Max. input current from grid	a.c. 27.3 A			
	Nominal output voltage	230 V			
	Nominal output frequency	50 Hz / 60 Hz			
	Max / Rated apparent power	3000 VA / 3000 VA			
	Peak output apparent power	4500 VA, 10s			
	Rated Current (@230V)	13.1 A			
	Max. output current	13.7 A			
	Max. switch time	10 ms			
	Output THDi (@ Linear load)	< 3%			
Effi- ciency	MPPT efficiency	99.9%			
	Euro efficiency / Max. efficiency	97% / 97.6%			
	Max. battery to load efficiency	94.7%			
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	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)	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%			
	Max. operating altitude	4000m (>3000m power derating)			
	Country of Manufacture	THE PEOPLE'S REPUBLIC OF CHINA			
Features	User interface	LED & App			
	BMS inteface	RS485 / CAN			
	Meter interface	RS485			
	Communication with portal	WIFI stick			
	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