

ASW S Series



Models:
ASW5000-S-A
ASW6000-S-A
ASW8000-S-A
ASW10000-S-A



Easy-to-install

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



Reliable

- International quality standards
- Integrated DC switch
- IP66 rated design for outdoor use



User-friendly

- 16 A input current, compatible with bifacial and large area PV modules
- Online monitoring via Wi-Fi and AiSWEI apps
- 3 MPPT's for flexible PV array design

Technical Datasheet

ASW5000-S-A ASW6000-S-A ASW8000-S-A ASW10000-S-A

	ASW5000-S-A	ASW6000-S-A	ASW8000-S-A	ASW10000-S-A	
Input (DC)	Max. PV array power	8000 Wp STC	9000 Wp STC	12000 Wp STC / 15000 Wp STC	
	Max. input voltage	600 V			
	MPP voltage range / rated input voltage	80 V - 560 V / 360 V			
	Min. input voltage	80 V			
	Initial. feed in voltage	100 V			
	Max. operating input current	16 A			
	Max. short circuit current	22.5 A			
	No. of independent MPPT inputs / strings per MPPT input	3 / 1			
Output (AC)	Rated active power	5000 W	6000 W	8000 W / 10000 W	
	Rated apparent Power	5000 VA	6000 VA	8000 VA / 10000 VA	
	Max. apparent power	5000 VA	6600 VA	8800 VA / 10000 VA	
	AC nominal voltage	220 V / 230 V / 240 V			
	AC voltage range	180 V to 295 V			
	AC grid frequency / range	50 Hz / 45 Hz to 55 Hz / 60 Hz / 55 Hz to 65 Hz			
	Max. output current	21.7A	30 A	40 A / 50 A	
	Adjustable power factor range	0.8 leading to 0.8 lagging			
	Feed-in phases	1			
	Harmonic distortion (THD) at rated output	< 3 %			
	Efficiency & Protection	Max. efficiency / European efficiency	97.7 % / 97.3 %		
DC switch		●			
Ground fault monitoring / grid monitoring		● / ●			
DC reverse polarity protection / AC short circuit protection		● / ●			
All-pole-sensitive residual-current monitoring unit		●			
Protection class (according to IEC 62109-1) / overvoltage category (according to IEC 62109-1)		I/AC: III; DC :II			
General data	Dimensions (W / H / D)	503 / 435 / 183 mm			
	Weight	< 18 kg			
	Operating temperature range	-25°C ... +60°C			
	Self-consumption (at night)	< 1 W			
	Topology	Non-isolated			
	Cooling concept	Natural convection			
	Degree of protection (according to IEC 60529)	IP66			
	Climatic category (according to IEC 60721-3-4)	4K4H			
	Max. permissible value for relative humidity (non-condensing)	100%			
	Max. operating altitude	3000 m			
Features	DC connection	Plug-in-connector			
	AC connection	Plug-in connector			
	Mounting type	Wall-mount bracket			
	LED indicators (Status / Fault / Communication)	●			
	Communication interface ^{1,2}	Wi-Fi / 4G / RS485 (Optional)			
	Country of Manufacture	China			
	Certificates and approvals (more available on request)	CE, EN50549, IEC62109, IEC62116, IEC61727, IEC61683, IEC60068, IEC61000, AS/NZS4777, C10/C11			

● Standard features / ○ optional features / – not available

Data at nominal conditions. All information is subject to change.

1- Zero export installations supported with 2-pin RS485 for connection to approved smart meters

2- DRED supported with RS485 communication for Australia & New Zealand