

Single phase inverters 3 to 5 kW

ASW S Series



Models:

ASW3000-S

ASW3680-S

ASW4000-S

ASW5000-S



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
- IP65 rated design for outdoor use



User-friendly

- User friendly app interface
- Online monitoring via Wi-Fi and AiSWEI apps
- Dual MPPT's for flexible PV array design

Technical Datasheet

ASW3000-S

ASW3680-S

ASW4000-S

ASW5000-S

Input (DC)	Max. PV array power	4500 Wp STC	5520 Wp STC	6000 Wp STC	7500 Wp STC
	Max. input voltage	580 V			
	MPP voltage range / rated input voltage	80 V to 550 V / 360 V			
	Min. input voltage	80 V			
	Initial. feed in voltage	100 V			
	Max. operating input current	12 A / 12 A			
	Max. short circuit current	18 A / 18 A			
	No. of independent MPPT inputs / strings per MPPT input	2/1			
Output (AC)	Rated active power	3000 W	3680 W	4000 W	5000 W*
	Rated apparent Power	3000 VA	3680 VA	4000 VA	5000 VA*
	Max. apparent power	3000 VA	3680 VA	4000 VA	5000 VA
	AC nominal voltage	220 V / 230 V / 240 V			
	AC voltage range	180 V to 290 V			
	AC grid frequency / range	50 Hz / 45 Hz to 55 Hz 60 Hz / 55 Hz to 65 Hz			
	Max. output current	15 A	16 A	20 A	22.7 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	97.85 % / 97.3 %	97.85 % / 97.5 %	97.85 % / 97.5 %
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)	376 / 355 / 145 mm			
	Weight	12 kg			
	Operating temperature range	-25°C ... +60°C			
	Self-consumption (at night)	< 1 W			
	Topology	Transformerless			
	Cooling concept	Natural convection			
	Degree of protection (according to IEC 60529)	IP65			
	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	Phoenix contact			
	AC connection	Plug-in connector			
	Mounting type	Wall-mount bracket			
	LED indicators (Status / Fault/ Communication)	●			
	Communication interface ¹	Wi-Fi / 4G / RS485 (Optional)			
	Country of Manufacture	China			
	Certificates and approvals (more available on request)	CE, IEC62109, IEC61000, AS/NZS 4777, EN50549, VFR 2014 & UTE C15-712-1, CEI 0-21, C10/C11, NBR16149, IEC61727, IEC62116, IEC61683			

● Standard features / ○ optional features / – not available

* The rated active power is 4991W and the rated apparent power is 4991VA when set to the AS/NS 4777.2 grid code

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

1- DRED function supported via RS485 for Australia & New Zealand

Version: January 2022

