



ASW5000-S-A Single Phase Inverters Instruction Manual

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ASW S Series
Single-phase inverters 5 to 10 kW



Models:

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

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ASW5000-S-A Single Phase Inverters



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

	Max. PV array power	8000 Wp ST C	9000 Wp ST C	12000 Wp S TC	15000 Wp S TC
	Max. input voltage	600 V			
	MPP voltage range / rated input voltage	80 V – 560 V / 360 V			

Input (DC)	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	● / ●
	The 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-inconnector
	AC connection	Plug-in connector
	Mounting type	Wall-mount bracket
	LED indicators (Status / Fault / Communication)	●
	Communication interface1&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

Documents / Resources

	ASW ASW5000-S-A Single Phase Inverters [pdf] Instruction Manual ASW5000-S-A, ASW6000-S-A, ASW8000-S-A, ASW10000-S-A, Single Phase Inverters, ASW 5000-S-A Single Phase Inverters, Inverters
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