

Single phase string inverters 3 to 5 kW



Models:

ASW3000-S

ASW3680-S

ASW4000-S

ASW5000-S



Easy-to-install

- Quick & easy-to-install with basic tools
- Compact, wall mount and SUNCLIX connection
- Quick Wi-Fi set up with app



Reliable

- International quality standards
- Integrated 150% range DC/AC switch
- IP65 waterproof for outdoor use



User-friendly

- Smart monitoring with user-friendly app
- Discrete design that fits anywhere
- Quiet performance with low 25dB levels

Technical Data Sheet

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 Vto 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			
	Number of independent MPP inputs / strings per MPP input	2/1			
Output (AC)	Rated power	3000 W	3680 W	4000 W	5000 W
	Max apparent AC power	3000 VA	3680 VA	4000 VA	5000 VA
	AC nominal voltage	220 V / 230 V / 240 V			
	AC voltage range	180 Vto 290 V			
	AC grid frequency / range	50 Hz/ 45 Hz to 55 Hz – 60 Hz/55 Hz to 65 Hz			
	Rated grid frequency / rated grid voltage	50 Hz/230 V			
	Max output current	15 A	16 A	20 A	22.7 A*
	Power factor at rated power	1			
	Adjustable displacement power factor	0.8 overexcited to 0.8 underexcited			
	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%	97.85%/97.6%
	Input-side disconnection device	●			
	Ground fault monitoring / grid monitoring	● / ●			
	DC reverse polarity protection / AC short circuit current capability	● / ●			
	All-pole-sensitive residual-current monitoring unit	●			
	Protection class(according to IEC 62109-1) / overvoltage category (according to IEC 62109-1)	1/AC: III; DC :II			
General data	Dimensions (W / H / D)	376/355/145 mm			
	Weight	12 kg			
	Operating temperature range	-25°C – +60°C			
	Noise emission (typical)	< 25 dB(A))			
	Self-consumption (at night)	<1W			
	Topology	Transformerless			
	Cooling concept	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	SUNCLIX (Phoenix Contact)			
	AC connection	Plug-in Connector			
	Mounting type	Wall-mounting bracket			
	LED Indicators (Status / Fault/ Communication)	●			
	Communication interface ^{1&2}	Wi-Fi / RS485			
	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

* For AS/NZS 4777.2:2015 Maximum output current is 21.7A

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

Single-phase String inverters 6 to 10 kW

ASW S Series

3 MPPT's for flexible PV array design



Models:

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 WiFi and Aiswei apps
- 3 MPPT's for flexible PV array design

Technical Data Sheet

ASW6000-S-A

ASW8000-S-A

ASW10000-S-A

Input (DC)	Max. PV array power	9000 Wp STC	12000 Wp STC	15000 Wp STC
	Max. input voltage	600 V		
	MPPT 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 power	6000 W	8000 W	10000 W
	Max. apparent AC power	6600 VA	8800 VA	10000 VA
	AC nominal voltage	220 V / 230 V / 240 V		
	AC voltage range	180 - 295 V		
	AC grid frequency / range	50 Hz / 45 Hz - 55 Hz 60 Hz / 55 Hz - 65 Hz		
	Max. output current	30 A	40 A	45.5 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	Transformerless		
	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	Phoenix contact		
	AC connection	Plug-in Connector		
	Mounting type	Wall-mount bracket		
	LED Indicators (Status / Fault / Communication)	●		
	Communication interface ^{1&2}	Wi-Fi / RS485		
	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

3- For European region, Models are"-S"; For Australia region,,Models are"-S-A".

Version: November 2021

