

## ASW3000-S / 3680-S / 4000-S / 5000-S

> Single-Phase String Inverters 3 kW to 5 kW

- Supports up to 150% DC/AC ratio
- Fast installation with no lid opening necessary
- Dual MPPT for flexible installation
- Small and light thanks to compact design
- IP65 for outdoor use



# ASW3000-S / 3680-S / 4000-S / 5000-S

Technical data	ASW3000-S	ASW3680-S	ASW4000-S	ASW5000-S
<b>Input (DC)</b>				
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 per MPPT	12 A / 12A			
Max short circuit current per MPPT / per string input	18 A / 18 A			
Number of independent MPP inputs / strings per MPP input	2 / 1			
<b>Output (AC)</b>				
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 V to 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 %			
<b>Efficiency</b>				
Max efficiency / European efficiency	97.85 % / 97.3 %	97.85 % / 97.5 %	97.85 % / 97.5 %	97.85 % / 97.6 %
<b>Protective devices</b>				
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)	I / AC : III ; DC : II			
<b>General data</b>				
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)	< 1 W			
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			
<b>Features</b>				
DC connection	SUNCLIX (Phoenix Contact)			
AC connection	Plug-in Connector			
Mounting type	Wall-mounting bracket			
LED Indicators (Status / Fault / Communication)	●			
Communication interface <sup>1) &amp; 2)</sup>	WiFi / RS485 (Option)			
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			
Type designation	ASW3000-S	ASW3680-S	ASW4000-S	ASW5000-S

● standard features ○ optional features - not available

Data at nominal conditions. All information is subject to change. Version: February 2020

\* 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