

ASW3000-T / 4000-T / 5000-T / 6000-T / 8000-T / 10000-T

> Three-Phase String Inverters 3 kW to 10 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



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Technical data	ASW3000-T	ASW4000-T	ASW5000-T	ASW6000-T	ASW8000-T	ASW10000-T
Input (DC)						
Max PV array power	4500 Wp STC	6000 Wp STC	7500 Wp STC	9000 Wp STC	12000 Wp STC	15000 Wp STC
Max input voltage	950 V					
MPP voltage range / rated input voltage	125 V to 950 V / 630 V					
Min input voltage	130 V					
Initial feed-in voltage	150 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 / A :1 ; B : 1					
Output (AC)						
Rated power	3000 W	4000 W	5000 W	6000 W	8000 W	10000 W
Max apparent AC power	3000 VA	4000 VA	5000 VA	6000 VA	8000 VA	10000 VA
AC nominal voltage	220 V / 380 V 230 V / 400 V 240 V / 415 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					
Rated grid frequency / rated grid voltage	50 Hz / 230 V					
Max output current	5 A	6.7 A	8.4 A	9.1 A	13.3 A	15.2 A
Power factor at rated power	1					
Adjustable displacement power factor	0.8 overexcited to 0.8 underexcited					
Feed-in phases	3 / 3-N-PE					
Harmonic distortion (THD) at rated output	< 3%					
Efficiency						
Max efficiency / European efficiency	98.2 % / 96.6 %	98.2 % / 97.2 %	98.2 % / 97.5 %	98.2 % / 97.6 %	98.3 % / 98.0 %	98.3 % / 98.0 %
Protective devices						
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					
General data						
Dimensions (W / H / D)	424 / 375 / 172 mm	424 / 375 / 172 mm	424 / 375 / 172 mm	424 / 375 / 172 mm	424 / 375 / 172 mm	424 / 375 / 172 mm
Weight	13.5 kg	13.5 kg	13.5 kg	13.5 kg	15 kg	15 kg
Operating temperature range	-25 °C ... +60 °C					
Noise emission (typical)	< 35 dB(A)	< 35 dB(A)	< 35 dB(A)	< 35 dB(A)	< 45 dB(A)	< 45 dB(A)
Self-consumption (at night)	< 1 W					
Topology	Transformerless					
Cooling concept	Convection	Convection	Convection	Convection	Fan cooling	Fan cooling
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)}	WiFi / RS485 (Option)					
Certificates and approvals (more available on request)	CE, EN50549, G98/99, VDE-AR-N4105, AS/NZS 4777, C10/C11, VFR 2014 & UTE C15, IEC62109, IEC62116, IEC61727, IEC61683, IEC60068, IEC61000, NB/T 32004					
Type designation	ASW3000-T	ASW4000-T	ASW5000-T	ASW6000-T	ASW8000-T	ASW10000-T

● standard features ○ optional features - not available

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

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