

Single phase string inverters 3 to 5 kW

ASW S Series



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

Version: April 2021

