

Single phase string inverters 1 to 3 kW

# ASW S-S Series



Models:

ASW1000S-S

ASW1500S-S

ASW2000S-S

ASW3000S-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 15dB levels

# Technical Data Sheet

ASW1000S-S

ASW1500S-S

ASW2000S-S

ASW3000S-S

|                         |  |  |             |             |             |
|-------------------------|--|--|-------------|-------------|-------------|
| Input (DC)              | Max PV array power   | 1500 Wp STC  | 2250 Wp STC | 3000 Wp STC | 4500 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  | 12 A   |             |             |             |
|                         | Max short circuit current  | 18 A   |             |             |             |
|                         | Number of independent MPP inputs / strings per MPP input                                     | 1/1  |             |             |             |
| Output (AC)             | Rated power  | 1000 W   | 1500 W      | 2000 W      | 3000 W      |
|                         | Max apparent AC power  | 1000 VA  | 1500 VA     | 2000 VA     | 3000 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   | 5 A  | 7.5 A       | 10 A        | 13.6 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   | 97.4%/95.4%  | 97.6%/96.3% | 97.6%/96.8% | 97.6%/97.1% |
|                         | 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)   | 320/264/94 mm  |             |             |             |
|                         | Weight   | 6.5 kg   |             |             |             |
|                         | Operating temperature range  | -25°C – +60°C  |             |             |             |
|                         | Noise emission (typical)   | < 15 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 <sup>1&amp;2</sup>   | Wi-Fi / RS485  |             |             |             |
|                         | Certificates and approvals (more available on request)                                       | CE, IEC62109, IEC61000, EN50549, AS/NZS4777, C10/C11, IEC61727, IEC62116, IEC61683 |             |             |             |

● 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

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