

Single phase 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
- Quick setup and commissioning with Solplanet apps
- Compact wall mount design



## Reliable

- International quality standards
- Integrated DC switch
- IP65 rated design for outdoor use



## User-friendly

- User friendly app interface
- Online monitoring via Wi-Fi and Solplanet apps
- Dual MPPT's for flexible PV array design
- ShadeSol shadow management

# Technical Datasheet

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 V to 550 V / 360 V                                                                                                             |                |                |                |
|                         | Min. input voltage                                                                            | 80 V                                                                                                                              |                |                |                |
|                         | Initial. feed in voltage                                                                      | 100 V                                                                                                                             |                |                |                |
|                         | Max. operating input current                                                                  | 12 A / 12A                                                                                                                        |                |                |                |
|                         | Max. short circuit current                                                                    | 18 A / 18A                                                                                                                        |                |                |                |
|                         | No. of independent MPPT inputs / strings per MPPT input                                       | 2 / 1                                                                                                                             |                |                |                |
| Output (AC)             | Rated active power                                                                            | 3000 W                                                                                                                            | 3680 W         | 4000 W         | 5000 W         |
|                         | Rated apparent power                                                                          | 3000 VA                                                                                                                           | 3680 VA        | 4000 VA        | 5000 VA        |
|                         | Max. apparent 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<br>60 Hz / 55 Hz to 65 Hz                                                                                  |                |                |                |
|                         | Max. output current                                                                           | 15 A                                                                                                                              | 16 A           | 20 A           | 22.7 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                                                         | 97.85% / 97.3%                                                                                                                    | 97.85% / 97.5% | 97.85% / 97.5% | 97.85% / 97.6% |
|                         | DC switch                                                                                     | ●                                                                                                                                 |                |                |                |
|                         | Ground fault monitoring / grid monitoring                                                     | ● / ●                                                                                                                             |                |                |                |
|                         | DC reverse polarity protection / AC short circuit protection                                  | ● / ●                                                                                                                             |                |                |                |
|                         | All-pole-sensitive residual-current monitoring unit                                           | ●                                                                                                                                 |                |                |                |
|                         | Anti-islanding Protection                                                                     | ●                                                                                                                                 |                |                |                |
|                         | 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)                                                                        | 376 / 355 / 145 mm                                                                                                                |                |                |                |
|                         | Weight                                                                                        | 12 kg                                                                                                                             |                |                |                |
|                         | Operating temperature range                                                                   | -25°C ... +60°C                                                                                                                   |                |                |                |
|                         | Self-consumption (at night)                                                                   | <1 W                                                                                                                              |                |                |                |
|                         | Topology                                                                                      | Non-isolated                                                                                                                      |                |                |                |
|                         | Cooling concept                                                                               | Natural 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                                                                                 | Plug-in connector                                                                                                                 |                |                |                |
|                         | AC connection                                                                                 | Plug-in connector                                                                                                                 |                |                |                |
|                         | Mounting type                                                                                 | Wall-mount bracket                                                                                                                |                |                |                |
|                         | LED indicators (Status / Fault / Communication)                                               | ●                                                                                                                                 |                |                |                |
|                         | Communication interface¹                                                                      | ●/●/○/○<br>(RS485 /Wi-Fi/ LAN /4G)                                                                                                |                |                |                |
|                         | Country of manufacture                                                                        | China                                                                                                                             |                |                |                |
|                         | 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

\*Max. output current limited to 21.7 A when set to the AS/NZS 4777.2 grid code

1- DRED function supported via RS485 for Australia & New Zealand

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