

Single phase All-in-one hybrid energy storage system 400 to 1000 W

# ASW A-S Series



## Models:

ASW0400/1250A-S

ASW0400/2500A-S

ASW0600/1250A-S

ASW0600/2500A-S

ASW0800/1250A-S

ASW0800/2500A-S

ASW1000/1250A-S

ASW1000/2500A-S



## Easy-to-install

- Easy to install for everybody
- Power into any single-phase socket
- Power from all same-phase sockets



## Safe & Reliable

- Safe & Reliable low voltage system
- 5 years warranty + option for more years
- All-around protection with Battery Management System (BMS)



## User-friendly

- User-friendly LCD display for settings & status
- Mobile App for remote setting & monitoring
- Low working temperature down to -15°C

## Technical Datasheet

| Technical Datasheet |                                                           | ASW0400/<br>1250A-S                            | ASW0600/<br>1250A-S | ASW0800/<br>1250A-S | ASW1000/<br>1250A-S | ASW0400/<br>2500A-S | ASW0600/<br>2500A-S | ASW0800/<br>2500A-S | ASW01000/<br>2500A-S |
|---------------------|-----------------------------------------------------------|------------------------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------|
| PV input            | Max. PV array power                                       | 800 Wp                                         | 1600 Wp             | 1600 Wp             | 1600 Wp             | 800 Wp              | 1600 Wp             | 1600 Wp             | 1600 Wp              |
|                     | Max. input voltage                                        | 50 V                                           |                     |                     |                     |                     |                     |                     |                      |
|                     | MPP voltage range / rated input voltage                   | 16 V to 50 V / 40 V                            |                     |                     |                     |                     |                     |                     |                      |
|                     | Min. input voltage / start voltage                        | 26 V / 30 V                                    |                     |                     |                     |                     |                     |                     |                      |
|                     | No. of independent MPPT trackers / strings per MPPT input | 1 / 2                                          | 2 / 2               | 2 / 2               | 2 / 2               | 1 / 2               | 2 / 2               | 2 / 2               | 2 / 2                |
|                     | Max. input current per MPP tracker                        | 26 A                                           |                     |                     |                     |                     |                     |                     |                      |
|                     | Max. short-circuit current per MPP tracker                | 39 A                                           |                     |                     |                     |                     |                     |                     |                      |
| Battery input       | Rated battery energy                                      | 1.3 kWh                                        |                     |                     |                     | 2.4 kWh             |                     |                     |                      |
|                     | Rated capacity                                            | 27 Ah                                          |                     |                     |                     | 50 Ah               |                     |                     |                      |
|                     | Battery type                                              | LiFePO4                                        |                     |                     |                     |                     |                     |                     |                      |
| AC output           | Nominal AC voltage                                        | 220V / 230V / 240V                             |                     |                     |                     |                     |                     |                     |                      |
|                     | AC voltage range                                          | 154 V - 276 V                                  |                     |                     |                     |                     |                     |                     |                      |
|                     | Rated AC grid frequency                                   | 50 Hz / 60 Hz                                  |                     |                     |                     |                     |                     |                     |                      |
|                     | AC grid frequency range                                   | 45~55 Hz / 55~65 Hz                            |                     |                     |                     |                     |                     |                     |                      |
|                     | Rated apparent power                                      | 400 VA                                         | 600 VA              | 800 VA              | 1000 VA             | 400 VA              | 600 VA              | 800 VA              | 1000 VA              |
|                     | Max. apparent power                                       | 400 VA                                         | 600 VA              | 800 VA              | 1000 VA             | 400 VA              | 600 VA              | 800 VA              | 1000 VA              |
|                     | Rated grid output Current (@230 V)                        | 1.8 A                                          | 2.6 A               | 3.5 A               | 4.4 A               | 1.8 A               | 2.6 A               | 3.5 A               | 4.4 A                |
|                     | Max. grid output current(@230 V)                          | 1.8 A                                          | 2.6 A               | 3.5 A               | 4.4 A               | 1.8 A               | 2.6 A               | 3.5 A               | 4.4 A                |
|                     | Harmonics THDi (@ Nominal power)                          | < 3 % (of nominal power)                       |                     |                     |                     |                     |                     |                     |                      |
| AC input            | Rated grid voltage                                        | 220V / 230V / 240V                             |                     |                     |                     |                     |                     |                     |                      |
|                     | Rated grid frequency                                      | 50 Hz / 60 Hz                                  |                     |                     |                     |                     |                     |                     |                      |
|                     | Max. input power from grid                                | 1000 W                                         |                     |                     |                     |                     |                     |                     |                      |
|                     | Max. input current from grid                              | 4.4 A                                          |                     |                     |                     |                     |                     |                     |                      |
| Efficiency          | MPPT efficiency                                           | 99.9 %                                         |                     |                     |                     |                     |                     |                     |                      |
|                     | Max. battery to load efficiency                           | 92.0 %                                         |                     |                     |                     |                     |                     |                     |                      |
| General data        | Power factor at rated power / adjustable range            | 1/ 0.8 leading to 0.8 lagging                  |                     |                     |                     |                     |                     |                     |                      |
|                     | Topology                                                  | Isolated                                       |                     |                     |                     |                     |                     |                     |                      |
|                     | Dimensions (W / H / D)                                    | 600 / 385 / 282 mm                             |                     |                     |                     |                     |                     |                     |                      |
|                     | Weight                                                    | 24 kg                                          |                     |                     |                     | 36 kg               |                     |                     |                      |
|                     | Operating temperature range                               | -15 °C ... +45 °C                              |                     |                     |                     |                     |                     |                     |                      |
|                     | Cooling concept                                           | Fan Cooling                                    |                     |                     |                     |                     |                     |                     |                      |
|                     | Degree of protection (as per IEC 60529)                   | IP54                                           |                     |                     |                     |                     |                     |                     |                      |
|                     | Max. relative humidity                                    | 95 %                                           |                     |                     |                     |                     |                     |                     |                      |
|                     | Max. operating altitude                                   | 3000 m                                         |                     |                     |                     |                     |                     |                     |                      |
| Features            | User interface                                            | LCD & App                                      |                     |                     |                     |                     |                     |                     |                      |
|                     | Zero-export interface                                     | CT                                             |                     |                     |                     |                     |                     |                     |                      |
|                     | Internet communication interfaces                         | Wifi                                           |                     |                     |                     |                     |                     |                     |                      |
| Certificates        | Grid                                                      | VDE 4105                                       |                     |                     |                     |                     |                     |                     |                      |
|                     | Safety                                                    | IEC/EN 62109-1, IEC/EN 62109-2                 |                     |                     |                     |                     |                     |                     |                      |
|                     | EMC                                                       | IEC/EN 61000-6-1/-2/-3/-4, IEC/EN 61000-3-2/-3 |                     |                     |                     |                     |                     |                     |                      |
|                     | Battery                                                   | IEC62619, UN 38.3                              |                     |                     |                     |                     |                     |                     |                      |

