

# AS2 SERIES

## SINGLE PHASE AC-COUPLED ALL-IN-ONE SOLUTION



AS2-3K-S | AS2-3.6K-S | AS2-4K-S  
AS2-5K-S | AS2-6K-S



Easy installation  
with pre-wiring



Compatible with  
all inverter brands



Modular design and  
expandable up to 20.48kWh

**UPS**

With UPS function  
switch time  $\leq 10\text{ms}$

**IP65**

IP65 outdoor design



High voltage design  
reduces power loss

| MODEL                                     | AS2-3K-S   | AS2-3.6K-S | AS2-4K-S  | AS2-5K-S  | AS2-6K-S  |
|---|--|------------|-----------|-----------|-----------|
| <b>Battery Parameters</b>                 |  |            |           |           |           |
| Battery Type                              | LiFePO4  |            |           |           |           |
| Battery Voltage Range [V]                 | 85 ~ 450   |            |           |           |           |
| Max.Charging/ Discharging Current [A]     | 30/30  |            |           |           |           |
| Scalability                               | BU2-5.12-HV1 (up to 20.48kWh)  |            |           |           |           |
| <b>AC Output [On-grid]</b>                |  |            |           |           |           |
| Rated AC Power [W]                        | 3000   | 3680       | 4000      | 5000      | 6000      |
| Max. Apparent Power*1 [VA]                | 3300   | 3680       | 4400      | 5000      | 6000      |
| Rated Output Current [A]@230Vac           | 13.0   | 16.0       | 17.4      | 21.7*2    | 26.1      |
| Max. Output Current [A]                   | 15.0   | 16.7       | 20.0      | 25.0      | 27.3      |
| Rated AC Voltage/ Range [V]               | L+N+PE, 220, 230, 240/180 ~ 280  |            |           |           |           |
| Rated Output Frequency/ Range [Hz]        | 50, 60/45 ~ 55, 55 ~ 65  |            |           |           |           |
| Power Factor [cos φ]                      | 0.8 leading ~ 0.8 lagging  |            |           |           |           |
| Total Harmonic Distortion [THDi]          | <3%  |            |           |           |           |
| <b>AC input [On-grid]</b>                 |  |            |           |           |           |
| Rated AC Voltage/ Range [V]               | L+N+PE, 220, 230, 240/180 ~ 280  |            |           |           |           |
| Rated Output Frequency [Hz]               | 50, 60   |            |           |           |           |
| Max. Input Current [A]@230Vac             | 13.0   | 16.0       | 17.4      | 21.7      | 26.1      |
| <b>AC Output [Back-up]</b>                |  |            |           |           |           |
| Max. Output Power [VA]                    | 3000   | 3680       | 4000      | 5000      | 6000      |
| Max. Output Current [A]                   | 13.6   | 16.7       | 18.2      | 22.7      | 27.3      |
| Peak Output Apparent Power [VA]           | 3600, 60s  | 4200, 60s  | 4800, 60s | 6000, 60s | 7200, 60s |
| Rated AC Voltage/ Range [V]               | L+N+PE, 220, 230, 240/180 ~ 280  |            |           |           |           |
| Rated Output Frequency/ Range [Hz]        | 50, 60/45 ~ 55, 55 ~ 65  |            |           |           |           |
| Automatic Switch Time [ms]                | 10   |            |           |           |           |
| Output THDv (@ Liner Load)                | <3%  |            |           |           |           |
| <b>Efficiency</b>                         |  |            |           |           |           |
| Max. Efficiency                           | 97.6%  |            |           |           |           |
| Euro Efficiency                           | 97.0%  |            |           |           |           |
| <b>Protection</b>                         |  |            |           |           |           |
| Battery Input Reverse Polarity Protection | Integrated   |            |           |           |           |
| Over load Protection                      | Integrated   |            |           |           |           |
| AC Short Circuit Current Protection       | Integrated   |            |           |           |           |
| AC Surge Protection                       | Integrated   |            |           |           |           |
| Anti-islanding Protection                 | Integrated   |            |           |           |           |
| <b>Interface</b>                          |  |            |           |           |           |
| PV Connection                             | MC4/H4   |            |           |           |           |
| AC Connection                             | Plug-in connector  |            |           |           |           |
| Battery Connection                        | Quick connector  |            |           |           |           |
| Display                                   | LED+APP  |            |           |           |           |
| Communication                             | Wi-Fi/ Ethernet/ 4G (Optional)   |            |           |           |           |
| <b>General Parameters</b>                 |  |            |           |           |           |
| Topology                                  | Non-isolated   |            |           |           |           |
| Operating Temperature Range               | -40°C to +60°C (45°C to 60°C with derating)  |            |           |           |           |
| Cooling Method                            | Natural Convection   |            |           |           |           |
| Ambient Humidity                          | 0-100% Non-condensing  |            |           |           |           |
| Altitude                                  | 4000m (>3000m Power Derating)  |            |           |           |           |
| Noise [dBA]                               | <35  |            |           |           |           |
| Ingress Protection                        | IP65   |            |           |           |           |
| Dimensions [H*W*D] [mm]                   | 474*626*365  |            |           |           |           |
| Weight [kg]                               | 22   |            |           |           |           |
| Warranty [Year]                           | 5/10/15/20   |            |           |           |           |
| Standard                                  | EN62109-1/2, EN61000-6-2/4, EN50438, EN50549, C10/11, IEC62116, IEC61727, RD1699, RD413, UNE 206006, UNE 206007, NTS, CEI 0-16, AS4777.2, NBR16149, NBR 16150, VDE-AR-N 4015, VDE 0126-1-1 |            |           |           |           |

Remarks: \*1 According to C10/C11, Max. Apparent Power= Rated AC Power. \*2 According to VDE-ARN-N 4105, Rated AC Current for AS2-5K-S is 20A.