

## Datasheet HS2

| MODEL (X = number of battery modules)     | HS2-3K-S2-X 4G<br>(X = 1, 2)  | HS2-5K-S2-X 4G<br>(X = 1, 2, 3, 4) | HS2-6K-S2-X 4G<br>(X = 1, 2, 3, 4) |
|---|---|------------------------------------|------------------------------------|
| <b>DC Input</b>                           |   |                                    |                                    |
| Max. PV Array Power [Wp]@STC              | 4500  | 7500                               | 9000                               |
| Max. DC Voltage [V]                       | 550   |                                    |                                    |
| MPPT Voltage Range [V]                    | 90~500  |                                    |                                    |
| Rated DC Voltage [V]                      | 360   |                                    |                                    |
| Start Voltage [V]                         | 100   |                                    |                                    |
| Backfeed Current [A]                      | 0   |                                    |                                    |
| Max. DC Input Current [A]                 | 16/16   |                                    |                                    |
| Max. DC Short Circuit Current [A]         | 19.2/19.2   |                                    |                                    |
| No. of MPPT                               | 2   |                                    |                                    |
| <b>Battery Parameters</b>                 |   |                                    |                                    |
| Battery Type                              | LiFePO4   |                                    |                                    |
| Battery Voltage Range [V]                 | 85~450  |                                    |                                    |
| Max. Charging/Discharging Current [A]     | 30/30   |                                    |                                    |
| Backfeed Current [A]                      | 0   |                                    |                                    |
| Scalability                               | BU2-5.0-HV1 (up to 20.0kWh -> 5.0kWh x number of battery modules)   |                                    |                                    |
| <b>AC Output [On-grid]</b>                |   |                                    |                                    |
| Rated AC Power [W]                        | 3000  | 4999                               | 6000                               |
| Max. Apparent Power*1 [VA]                | 3000  | 4999                               | 6000                               |
| Rated Output Current [A]@230Vac           | 13.0  | 21.7*2                             | 26.1                               |
| Max. Output Current [A]                   | 13.0  | 21.7*2                             | 26.1                               |
| 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 Input Frequency [Hz]                | 50, 60  |                                    |                                    |
| Max. Input Current [A]@230Vac             | 13.0  | 21.7                               | 26.1                               |
| <b>AC Output [Back-up]</b>                |   |                                    |                                    |
| Max. Output Power [VA]                    | 3000  | 4999                               | 6000                               |
| Max. Output Current [A]                   | 13.0  | 21.7                               | 26.1                               |
| Peak Output Apparent Power [VA]           | 3600, 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   |                                    |                                    |
| Output THDv (@ Linear 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  |                                    |                                    |
| DC Surge Protection                       | Integrated  |                                    |                                    |
| AC Surge Protection                       | Integrated  |                                    |                                    |
| Anti-islanding Protection                 | Integrated  |                                    |                                    |
| AFCI Protection                           | Optional  |                                    |                                    |
| RSD Protection                            | Optional  |                                    |                                    |
| <b>Interface</b>                          |   |                                    |                                    |
| PV Connection                             | D4/MC4(optional)  |                                    |                                    |
| 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] (PCE Unit)        | 354*626*365   |                                    |                                    |
| Weight [kg]                               | 25  |                                    |                                    |
| 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 |                                    |                                    |
| Made in China                             |   |                                    |                                    |

Remarks: \*1According to C10/C11, Max. Apparent Power= Rated Apparent Power;

\*2According to VDE-AR-N 4105, Rated AC Current for HS2-5K-S2 4G (X = 1, 2, 3, 4) is 20A.

## Datasheet BU2

| MODEL  | B2-5.0-HV1  | B2-10.0-HV1 | B2-15.0-HV1 | B2-20.0-HV1  |
|--|---|-------------|-------------|--------------|
| Battery Module                               | BU2-5.0-HV1 (32S1P 102.4V50Ah)                            |             |             |              |
| No. of Modules                               | 1   | 2           | 3           | 4            |
| Rated Energy [kWh]                           | 5.0   | 10.0        | 15.0        | 20.0         |
| Usable Energy [kWh] (90% Depth Of Discharge) | 4.5   | 9.0         | 13.5        | 18.0         |
| Dimension (H*W*D) [mm]                       | 261*626*365   | 522*626*365 | 783*626*365 | 1044*626*365 |
| Weight [kg]                                  | 50.5  | 101         | 151.5       | 202          |
| Nominal Voltage [V]                          | 102.4   | 204.8       | 307.2       | 409.6        |
| Operating Voltage [V]                        | 89.6~115.2  | 179.2~230.4 | 268.8~345.6 | 358.4~460.8  |
| Max. Charge Current [A]                      | 30  |             |             |              |
| Max. Discharge Current [A]                   | 30  |             |             |              |
| Control Module                               | BC2-HV1   |             |             |              |
| Dimension (H*W*D) [mm]                       | 220*626*365   |             |             |              |
| Weight [kg]                                  | 11  |             |             |              |
| General Parameters                           |   |             |             |              |
| Ingress Protection                           | IP65  |             |             |              |
| Mounting                                     | Wall-Mounted (Optional)/ Ground-Mounted                   |             |             |              |
| Operating Temperature Range                  | Charging: 0~50°C; Discharging: -10~50°C                   |             |             |              |
| Ambient Humidity                             | 0~95% non-condensing                                      |             |             |              |
| Cooling Method                               | Natural convection  |             |             |              |
| Communication                                | CAN   |             |             |              |
| Warranty [Year]                              | 5 / 10  |             |             |              |
| Applicable Standard                          | IEC62619(Cell&Pack), EN62477-1, EN61000-6-1/2/3/4, UN38.3 |             |             |              |