



# High Voltage Battery Datasheet

- HB-10S-G2**
- HB-15S-G2**
- HB-19S-G2**
- HB-23S-G2**

## Description

The HB-(10-23)S-G2 series is a type of deep cycle and high capacity LFP battery with improved safety, long lifespan, and optimized user experience.

It is designed with an IP65 rating for more flexible and easier installation.

It has superior performance with a capacity ranging from 11.52 kWh to 23.04 kWh for a single tower, which can meet residential electricity demand.

## Features

- 01** LFP with improved safety design
- 02** Suitable for indoor/outdoor installation with IP65 design
- 03** Quick connector design saves installation time
- 04** Stackable design without wiring
- 05** Flexible capacity options from 11.52 kWh to 23.04 kWh
- 06** Module level fire protection

# Technical Specifications

| Model  | HB-10S-G2                       | HB-15S-G2       | HB-19S-G2       | HB-23S-G2        |
|--|---------------------------------|-----------------|-----------------|------------------|
| <b>System Data</b>                               |                                 |                 |                 |                  |
| Battery type                                     | LiFePO <sub>4</sub>             |                 |                 |                  |
| Rated capacity (Ah)                              | 50                              |                 |                 |                  |
| Number of modules                                | 3                               | 4               | 5               | 6                |
| Total energy (kWh)                               | 11.52                           | 15.36           | 19.2            | 23.04            |
| Rated voltage (V)                                | 230.4                           | 307.2           | 384             | 460.8            |
| Voltage range (V)                                | 201.6-259.2                     | 268.8-345.6     | 336-432         | 403.2-518.4      |
| Rated charging/discharging current               | 0.5C                            |                 |                 |                  |
| Max. continuous charging/discharging current (A) | 30                              |                 |                 |                  |
| Max. charge/discharge power (kW)                 | 5.76                            | 7.68            | 9.6             | 11.52            |
| Peak charge/discharge power (kW)                 | 11.52 (5s)                      | 15.36 (5s)      | 19.2 (5s)       | 23.04 (5s)       |
| Communication                                    | CAN, RS485                      |                 |                 |                  |
| Recommended depth of discharge (DOD)             | 90%                             |                 |                 |                  |
| <b>Protection</b>                                |                                 |                 |                 |                  |
| Overvoltage and undervoltage protection          | Integrated                      |                 |                 |                  |
| Overcurrent protection                           | Integrated                      |                 |                 |                  |
| Overtemperature and undertemperature protection  | Integrated                      |                 |                 |                  |
| DC breaker                                       | Integrated                      |                 |                 |                  |
| <b>General</b>                                   |                                 |                 |                 |                  |
| Dimensions (W × H × D [mm])                      | 635 × 565 × 335                 | 635 × 710 × 335 | 635 × 855 × 335 | 635 × 1000 × 335 |
| Weight (kg)                                      | 132                             | 172             | 212             | 252              |
| Installation environment                         | Indoor/Outdoor                  |                 |                 |                  |
| Charging temperature (°C)                        | 0 to +50                        |                 |                 |                  |
| Discharging temperature (°C)                     | -10 to +50                      |                 |                 |                  |
| Protection degree                                | IP65                            |                 |                 |                  |
| Cooling  | Natural convection              |                 |                 |                  |
| Altitude (m)                                     | ≤2000                           |                 |                 |                  |
| Cycle life (25°C, 0.5C)                          | 6000 Cycles, @90% DOD, @70% EOL |                 |                 |                  |
| Certification                                    | IEC 62619, UN 38.3              |                 |                 |                  |
| Warranty <sup>(1)</sup>                          | 5-10 Years                      |                 |                 |                  |

\*Parallel connection between battery towers is not supported.

(1) Please refer to Hoymiles Warranty Terms & Conditions for more details.