



# BATTERY-BOX HVM+



## KEY FEATURES



### Ultra Safety

LFP expertise since 2002  
1M+ systems in 100+ countries  
Safety design from cell to pack



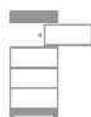
### Intelligent Management

Automatic SOC adjustment  
Remote diagnosis and OTA



### High Performance

High current  
Max. continuous charge/discharge current 50A



### Flexibility

Modular design  
Built-in balancing optimizer  
Extend anytime at any SOC



### Easy Installation

Patented internal plug connection  
Smart configuration  
Quick and flexible wiring



### Perfect Compatibility

Compatible with leading single  
& three phase inverters

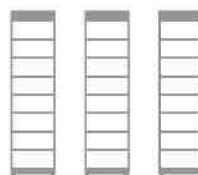
## BATTERY-BOX HVM+



HVM+ 8.3



HVM+ 22.1

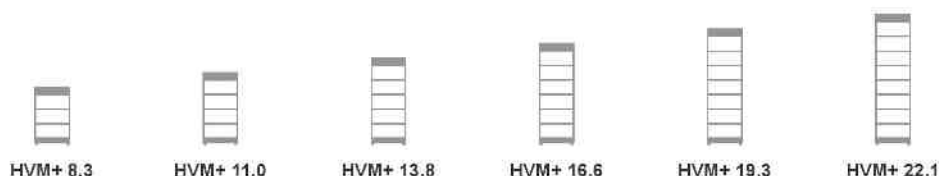


3 x HVM+ 22.1

Maximum capacity of

# 66.2 kWh

## TECHNICAL PARAMETERS HVM+



### PERFORMANCE

| Battery Module                     | HVM+ (2.76 kWh, 51.2 V, 41.4 kg) |                        |                        |                        |                        |                        |
|------------------------------------|----------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Number of Modules                  | 3                                | 4                      | 5                      | 6                      | 7                      | 8                      |
| Usable Energy <sup>[1]</sup>       | 8.28 kWh                         | 11.04 kWh              | 13.80 kWh              | 16.56 kWh              | 19.32 kWh              | 22.08 kWh              |
| Max. Output Current <sup>[2]</sup> | 50 A                             | 50 A                   | 50 A                   | 50 A                   | 50 A                   | 50 A                   |
| Peak Output Current <sup>[2]</sup> | 80 A, 15 s                       | 80 A, 15 s             | 80 A, 15 s             | 80 A, 15 s             | 80 A, 15 s             | 80 A, 15 s             |
| Nominal Voltage                    | 153.6 V                          | 204.8 V                | 256 V                  | 307.2 V                | 358.4 V                | 409.6 V                |
| Operating Voltage                  | 120 - 172.8 V                    | 160 - 230.4 V          | 200 - 288 V            | 240 - 345.6 V          | 280 - 403.2 V          | 320 - 460.8 V          |
| Dimensions(H/W/D)                  | 987 x<br>610 x 282 mm            | 1227 x<br>610 x 282 mm | 1467 x<br>610 x 282 mm | 1707 x<br>610 x 282 mm | 1947 x<br>610 x 282 mm | 2187 x<br>610 x 282 mm |
| Weight                             | 138.3 kg                         | 179.7 kg               | 221.1 kg               | 262.5 kg               | 303.9 kg               | 345.3 kg               |

### GENERAL DATA

| Operating Temperature   | -10°C to +50°C                                |
|-------------------------|-----------------------------------------------|
| Cell Technology         | Lithium Iron Phosphate (LiFePO <sub>4</sub> ) |
| Communication           | CAN / RS485                                   |
| IP Class                | IP55                                          |
| Round-trip Efficiency   | ≥ 95%                                         |
| Installation Scene      | Indoor / Outdoor Installation                 |
| Installation Mode       | Floor Stand                                   |
| Storage Humidity        | 5%~95%                                        |
| Altitude                | < 3000 m                                      |
| Certification           | VDE2510-50 / IEC62619 / CE / UKCA / UN38.3    |
| Applications            | ON Grid / ON Grid + Backup / OFF Grid         |
| Warranty <sup>[3]</sup> | 10 Years                                      |

[1] DC Usable Energy. Test conditions: 100% DOD, 0.2C charge & discharge at + 25°C. System Usable Energy may vary with different inverter brands.

[2] Power derating will occur between -10°C and +5°C.

[3] Conditions apply. Refer to BYD Battery-Box HVM+ Limited Warranty Letter.

#### NOTE

A: 2.76kWh is the initial capacity (designed) of the Energy Storage Module.

B: The actual capacity is affected by the external environment (such as temperature, transportation, and storage).