



# BATTERY-BOX HVB



## KEY FEATURES



### Safety

LFP cells developed in-house  
Proven in millions of EVs  
Solid die-casting case



### Reliability

1M+ systems in 100+ countries  
LFP expertise since 2002  
15-year warranty



### High Performance

True high voltage for highest efficiencies  
Highest density with cell-to-pack design  
High-power charge / discharge



### Flexibility

Patented internal plug connection  
Extend anytime at any SOC



### Easy Installation

1 module < 30kg, Full tower < 1.3m  
Single-person installation  
Smart configuration



### Intelligent Management

Automatic SOC adjustment  
Remote diagnosis and OTA

## BATTERY-BOX HVB



HVB 5.9



HVB 29.6

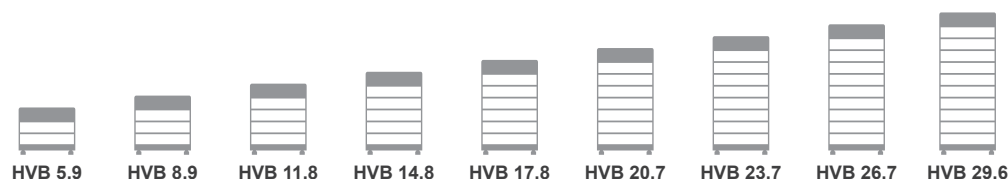


3 x HVB 29.6

Maximum capacity of

# 89.07 kWh

## TECHNICAL PARAMETERS HVB



### PERFORMANCE

| Battery Module               | HVB Module (2.97 kWh, 51.2 V, 27.3 kg) |                       |                       |                       |                       |                        |                        |                        |                        |
|------------------------------|----------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|------------------------|------------------------|------------------------|
| Number of Modules            | 2                                      | 3                     | 4                     | 5                     | 6                     | 7                      | 8                      | 9                      | 10                     |
| Usable Energy <sup>[1]</sup> | 5.94 kWh                               | 8.91 kWh              | 11.88 kWh             | 14.85 kWh             | 17.82 kWh             | 20.79 kWh              | 23.76 kWh              | 26.72 kWh              | 29.69 kWh              |
| Nominal Voltage              | 102.4 V                                | 153.6 V               | 204.8 V               | 256.0 V               | 307.2 V               | 358.4 V                | 409.6 V                | 460.8 V                | 512.0 V                |
| Operating Voltage            | 80 ~<br>115.2 V                        | 120 ~<br>172.8 V      | 160 ~<br>230.4 V      | 200 ~<br>288 V        | 240 ~<br>345.6 V      | 280 ~<br>403.2 V       | 320 ~<br>460.8 V       | 360 ~<br>518.4 V       | 400 ~<br>576 V         |
| Dimensions (H/W/D)           | 479 x 610<br>x 282 mm                  | 585 x 610<br>x 282 mm | 691 x 610<br>x 282 mm | 797 x 610<br>x 282 mm | 903 x 610<br>x 282 mm | 1009 x 610<br>x 282 mm | 1115 x 610<br>x 282 mm | 1221 x 610<br>x 282 mm | 1327 x 610<br>x 282 mm |
| Weight                       | 68.7 kg                                | 96 kg                 | 123.3 kg              | 150.6 kg              | 177.9 kg              | 205.2 kg               | 232.5 kg               | 259.8 kg               | 287.1 kg               |

### GENERAL DATA

|                                    |                                                  |
|------------------------------------|--------------------------------------------------|
| Max Output Current <sup>[2]</sup>  | 50 A                                             |
| Peak Output Current <sup>[2]</sup> | 98 A, 15 s                                       |
| Scalability                        | Max. 3 in Parallel (89.07 kWh)                   |
| Installation Mode                  | Floor installation                               |
| Communication                      | CAN / RS485                                      |
| Round-trip Efficiency              | ≥ 95%                                            |
| Applications                       | On Grid / On Grid + Backup / Off Grid            |
| Operating Temperature              | -20°C to +50°C                                   |
| IP Class                           | IP55                                             |
| Storage Humidity                   | 5%~95%                                           |
| Altitude                           | < 4000 m                                         |
| Battery Cell Technology            | Lithium Iron Phosphate (cobalt-free)             |
| Warranty <sup>[3]</sup>            | 15 Years                                         |
| Accessories (Optional)             | BYD smart WIFI/LAN module                        |
| Certification                      | VDE2510-50 / IEC62619 / CEC / CE / UKCA / UN38.3 |

[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 -20°C and 0°C.

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

[4] Please refer to the compatible list for the required number of modules for each inverter.

### NOTE

A: 2.97kWh 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).