BYD Energy Storage

# 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
Modular design
Patented internal plug connection

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

### Intelligent Management
Automatic SOC adjustment
Remote diagnosis and OTA

## BATTERY-BOX HVB

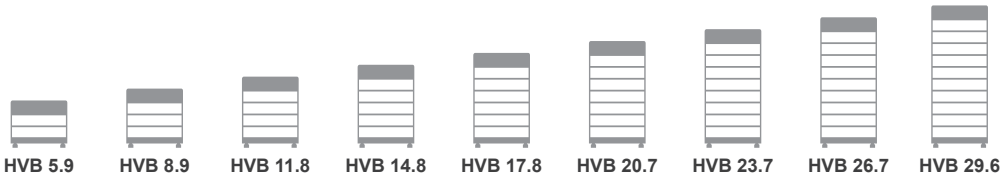


HVB 5.9 | HVB 29.6 | 3 x HVB 29.6

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 [1] | 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 ~ 115.2 V | 120 ~ 172.8 V | 160 ~ 230.4 V | 200 ~ 288 V | 240 ~ 345.6 V | 280 ~ 403.2 V | 320 ~ 460.8 V | 360 ~ 518.4 V | 400 ~ 576 V |
| Dimensions (H/W/D) | 479 x 610 x 282 mm | 585 x 610 x 282 mm | 691 x 610 x 282 mm | 797 x 610 x 282 mm | 903 x 610 x 282 mm | 1,009 x 610 x 282 mm | 1,115 x 610 x 282 mm | 1,221 x 610 x 282 mm | 1,327 x 610 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 [2] | 50 A |
| Peak Output Current [2] | 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 | < 4,000 m |
| Battery Cell Technology | Lithium Iron Phosphate (cobalt-free) |
| Warranty [3] | 15 Years |
| Certification | VDE 2510-50 / IEC 62619 / CEC / CE / UKCA / UN 38.3 |
| Compatible Inverters | BYD KOSTAL GOODWE solis Fronius SMA |

[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] The maximum charge / discharge current may vary depending on temperature, battery state of charge (SOC), and the connected inverter.

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

**NOTE**

A: 2.97 kWh 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).

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