

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



Intelligent Management

Automatic SOC adjustment
Remote diagnosis and OTA

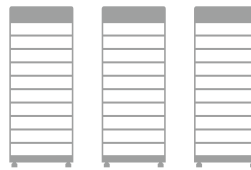
BATTERY-BOX HVB



HVB 5.9



HVB 29.6

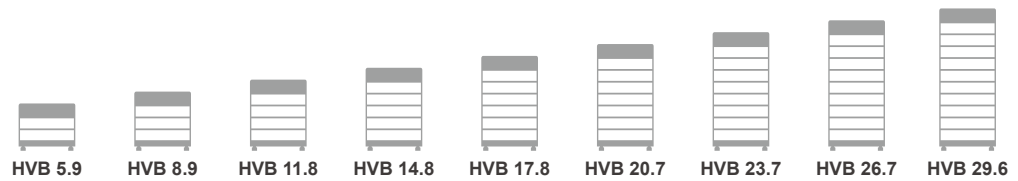


3 x HVB 29.6

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

[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: 2.97kWh 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).