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
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

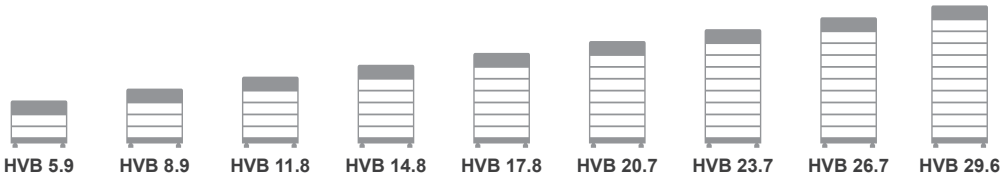
BATTERY-BOX HVB

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 [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	1009 x 610 x 282 mm	1115 x 610 x 282 mm	1221 x 610 x 282 mm	1327 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	< 4000 m
Battery Cell Technology	Lithium Iron Phosphate (cobalt-free)
Warranty [3]	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.

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