



Battery
Box

BATTERYBOX PREMIUM HVM



KEY FEATURES



Safety

LFP cells developed in-house
Proven in millions of EVs



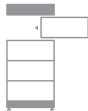
Reliability

LFP expertise since 2002
1M+ systems in 100+ countries



High Performance

High efficiency certified by HTW Berlin
High-power backup function



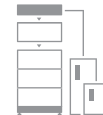
Flexibility

Modular design
Expandable anytime



Easy Installation

Patented internal plug connection
Quick set-up



Perfect Compatibility

Compatible with leading single
& three phase inverters

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HVM 8.3



HVM 22.1

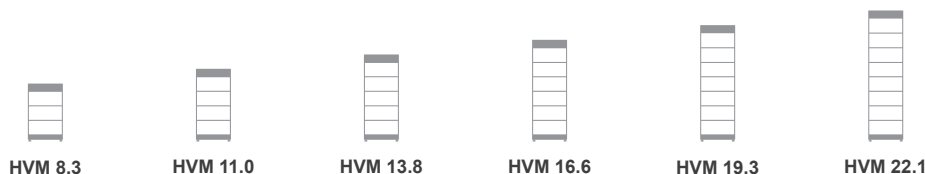


3 x HVM 22.1

Maximum capacity of

66.2 kWh

TECHNICAL PARAMETERS PREMIUM HVM



PERFORMANCE

Battery Module ^[1]	HVM (2.76 kWh, 51.2 V, 35 / 38 kg)					
Number of Modules	3	4	5	6	7	8
Usable Energy ^[2]	8.28 kWh	11.04 kWh	13.80 kWh	16.56 kWh	19.32 kWh	22.08 kWh
Max Output Current ^[3]	50 A	50 A	50 A	50 A	50 A	50 A
Peak Output Current ^[3]	75 A, 3 s	75 A, 3 s	75 A, 3 s	75 A, 3 s	75 A, 3 s	75 A, 3 s
Nominal Voltage	153.6 V	204.8 V	256 V	307.2 V	358.4 V	409.6 V
Operating Voltage	120 - 177 V	160 - 236 V	200 - 295 V	240 - 354 V	280 - 413 V	320 - 472 V
Dimensions(H/W/D)	995 x 585 x 298 mm	1228 x 585 x 298 mm	1461 x 585 x 298 mm	1694 x 585 x 298 mm	1927 x 585 x 298 mm	2160 x 585 x 298 mm
Weight ^[4]	119 - 129 kg	153 - 167 kg	188 - 205 kg	222 - 243 kg	257 - 281 kg	291 - 319 kg

GENERAL DATA

Operating Temperature	-10°C to +50°C
Battery Type	Lithium Iron Phosphate (LiFePO ₄)
Communication	CAN / RS485
Protection Rating	IP55
Round-trip Efficiency	≥ 96%
Environment	Indoor / Outdoor
Mounting Method	Floor Stand
Certification	VDE2510-50 / IEC62619 / CEC / CE / UN38.3
Applications	ON Grid / ON Grid + Backup / OFF Grid
Warranty ^[5]	10 Years
Compatible Inverters	

[1] HVM module has two versions with two types of cells applied separately. Both versions share the same performance, only weights differ.

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

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

[4] Two versions of HVM module are adaptable with each other and can be stacked in one tower. The weights of the tower may vary with mixed HVM modules.

[5] Conditions apply. Refer to BYD Battery-Box Premium Limited Warranty Letter.