BYD 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

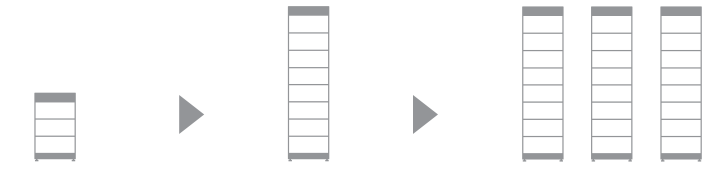
High Performance
High efficiency certified by HTW Berlin
High-power backup function

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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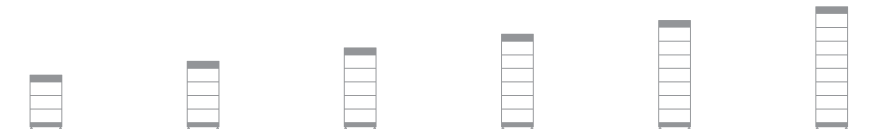


HVM 8.3 ▶ HVM 22.1 ▶ 3 x HVM 22.1

Maximum capacity of
66.2 kWh

BYD Battery Box

TECHNICAL PARAMETERS **PREMIUM HVM**



HVM 8.3 | HVM 11.0 | HVM 13.8 | HVM 16.6 | HVM 19.3 | HVM 22.1

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 (LiFePO4)
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	Fronius KOSTAL SMA KACO new energy solis Deye...

[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.

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