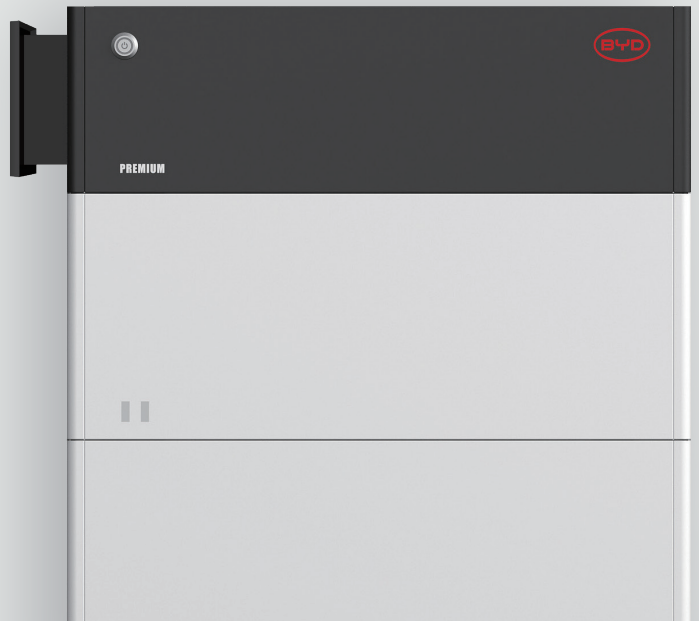




Battery
Box

BATTERYBOX PREMIUM HVM(US)



KEY FEATURES



Safety

LFP cells developed in-house
Proven in millions of EVs



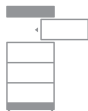
Reliability

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

BATTERYBOX PREMIUM HVM(US)



HVM 8.3



HVM 22.1

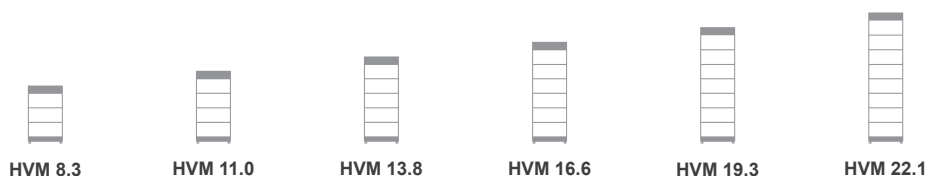


3 x HVM 22.1

Maximum capacity of

66.2 kWh

TECHNICAL PARAMETERS PREMIUM HVM(US)



PERFORMANCE

Battery Module ^[1]	HVM (2.76 kWh, 51.2 V, 77.2 / 83.8 lb)					
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)	39.2 x 23.0 x 11.7 inch	48.3 x 23.0 x 11.7 inch	57.5 x 23.0 x 11.7 inch	66.7 x 23.0 x 11.7 inch	75.9 x 23.0 x 11.7 inch	85.0 x 23.0 x 11.7 inch
Weight ^[4]	262.4 - 284.4 lb	337.3 - 368.2 lb	414.5 - 452.0 lb	489.4 - 535.7 lb	566.6 - 619.5 lb	641.6 - 703.3 lb

GENERAL DATA

Operating Temperature	14°F to 122°F
Battery Type	Lithium Iron Phosphate (LiFePO ₄)
Communication	CAN / RS485
Protection Rating	NEMA 3R
Round-trip Efficiency	≥ 96%
Environment	Indoor / Outdoor
Mounting Method	Floor Stand
Certification	UL9540A / UL1973 / IEC60730 / FCC / 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 + 77°F. System Usable Energy may vary with different inverter brands.

[3] Power derating will occur between 14°F and 41°F.

[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.