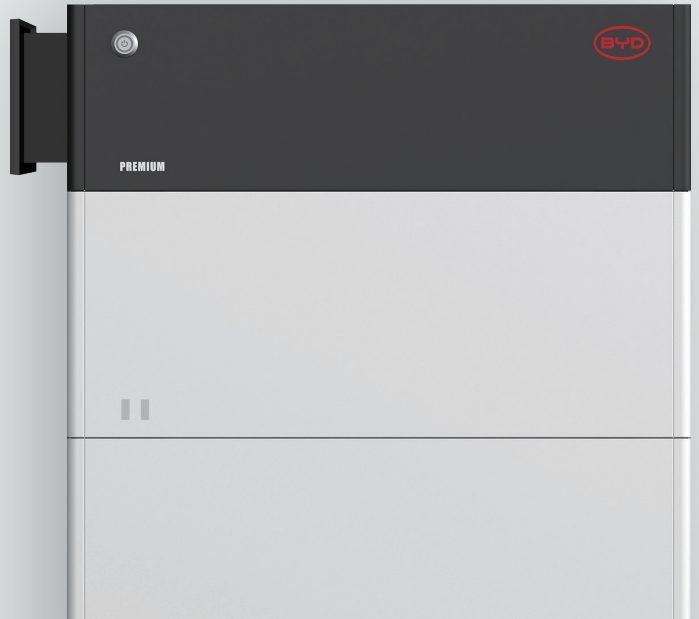




Battery  
Box

# BATTERYBOX PREMIUM HVM(US)



## KEY FEATURES



### Safety

LFP cells developed in-house  
Proven in millions of EVs



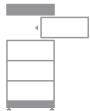
### Reliability

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



### High Performance

High efficiency certified by HTW Berlin  
High-power backup function



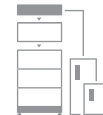
### Flexibility

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

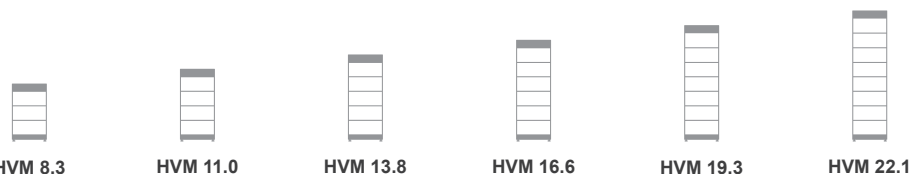


3 x HVM 22.1

Maximum capacity of

# 66.2 kWh

# TECHNICAL PARAMETERS PREMIUM HVM(US)



## PERFORMANCE

Battery Module	HVM (2.76 kWh, 51.2 V, 83.8 lb)					
Number of Modules	3	4	5	6	7	8
Usable Energy <sup>[1]</sup>	8.28 kWh	11.04 kWh	13.80 kWh	16.56 kWh	19.32 kWh	22.08 kWh
Max Output Current <sup>[2]</sup>	50 A	50 A	50 A	50 A	50 A	50 A
Peak Output Current <sup>[2]</sup>	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	284.4 lb	368.2 lb	452.0 lb	535.7 lb	619.5 lb	703.3 lb

## GENERAL DATA

Operating Temperature	14°F to 122°F
Battery Type	Lithium Iron Phosphate (LiFePO4)
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 <sup>[3]</sup>	10 Years
Compatible Inverters	

[1] DC Usable Energy. Test conditions: 100% DOD, 0.2C charge & discharge at + 77°F. System Usable Energy may vary with different inverter brands.

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

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