



Battery
Box

BATTERYBOX PREMIUM HVL

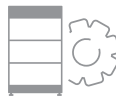


KEY FEATURES



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 HVL



HVL 12.0



HVL 32.0



3 x HVL 32.0

Maximum capacity of

96 kWh



TECHNICAL PARAMETERS PREMIUM HVL



HVL 12.0



HVL 16.0



HVL 20.0



HVL 24.0



HVL 28.0






HVL 32.0

PERFORMANCE

Battery Module	HVL (4 kWh, 51.2 V, 99.2 lb)					
Number of Modules	3	4	5	6	7	8
Usable Energy ^[1]	12 kWh	16 kWh	20 kWh	24 kWh	28 kWh	32 kWh
Max Output Current ^[2]	50 A	50 A	50 A	50 A	50 A	50 A
Peak Output Current ^[2]	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 - 173 V	160 - 230 V	200 - 288 V	240 - 345 V	280 - 403 V	320 - 460 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	330.7 lb	429.9 lb	529.1 lb	628.3 lb	727.5 lb	826.7 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%
Certification	UL9540 / UL9540A / UL1973 / IEC60730 / FCC / UN38.3 / OGPE / CEC
Applications	ON Grid / ON Grid+Backup / OFF Grid
Warranty ^[3]	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] Charge derating will occur between 14°F and 41°F.

[3] Condition apply. Refer to BYD Battery-Box Premium HVL Limited Warranty.