



# BATTERY-BOX PREMIUM HVS

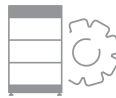


## KEY FEATURES



### 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

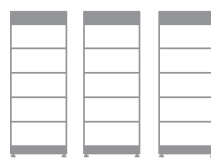
## BATTERY-BOX PREMIUM HVS



HVS 5.1



HVS 12.8



3 x HVS 12.8

Maximum capacity of

# 38.4 kWh

# TECHNICAL PARAMETERS PREMIUM HVS


**HVS 5.1**

**HVS 7.7**

**HVS 10.2**

**HVS 12.8**

## PERFORMANCE

Battery Module	HVS (2.56 kWh, 102.4 V, 38 kg)			
Number of Modules	2	3	4	5
Usable Energy <sup>[1]</sup>	5.12 kWh	7.68 kWh	10.24 kWh	12.8 kWh
Max Output Current <sup>[2]</sup>	25 A	25 A	25 A	25 A
Peak Output Current <sup>[2]</sup>	50 A, 3 s	50 A, 3 s	50 A, 3 s	50 A, 3 s
Nominal Voltage	204.8 V	307.2 V	409.6 V	512 V
Operating Voltage	160 - 240 V	240 - 360 V	320 - 480 V	400 - 600 V
Dimensions(H/W/D)	762 x 585 x 298 mm	995 x 585 x 298 mm	1228 x 585 x 298 mm	1461 x 585 x 298 mm
Weight	91 kg	129 kg	167 kg	205 kg

## GENERAL DATA

Operating Temperature	-10°C to +50°C
Battery Type	Lithium Iron Phosphate (LiFePO <sub>4</sub> )
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 <sup>[3]</sup>	10 Years
Compatible Inverters <sup>[4]</sup>	

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

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

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

[4] Please refer to the compatible list for the required number of modules for each inverter.