

BATTERY-BOX HVM+



KEY FEATURES



Ultra Safety

LFP expertise since 2002
1M+ systems in 100+ countries
Safety design from cell to pack



Intelligent Management

Automatic SOC adjustment
Remote diagnosis and OTA



High Performance

High current
Max. continuous charge / discharge current 50 A



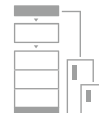
Flexibility

Modular design
Built-in balancing optimizer
Extend anytime at any SOC



Easy Installation

Patented internal plug connection
Smart configuration
Quick and flexible wiring



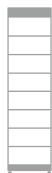
Perfect Compatibility

Compatible with leading single-phase
& three-phase inverters

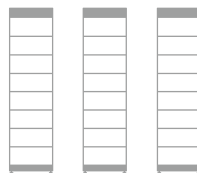
BATTERY-BOX HVM+



HVM+ 8.3



HVM+ 22.1

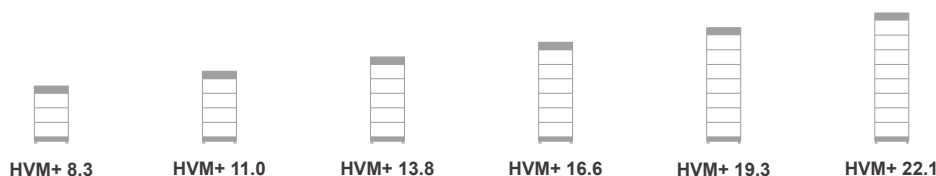


3 x HVM+ 22.1

Maximum capacity of

66.2 kWh

TECHNICAL PARAMETERS HVM+



PERFORMANCE

Battery Module HVM+ (2.76 kWh, 51.2 V, 41.4 kg)						
Number of Modules	3	4	5	6	7	8
Usable Energy ^[1]	8.28 kWh	11.04 kWh	13.80 kWh	16.56 kWh	19.32 kWh	22.08 kWh
Max. Output Current ^[2]	50 A	50 A	50 A	50 A	50 A	50 A
Peak Output Current ^[2]	80 A, 15 s	80 A, 15 s	80 A, 15 s	80 A, 15 s	80 A, 15 s	80 A, 15 s
Nominal Voltage	153.6 V	204.8 V	256 V	307.2 V	358.4 V	409.6 V
Operating Voltage	120 - 172.8 V	160 - 230.4 V	200 - 288 V	240 - 345.6 V	280 - 403.2 V	320 - 460.8 V
Dimensions(H/W/D)	987 x 610 x 282 mm	1,227 x 610 x 282 mm	1,467 x 610 x 282 mm	1,707 x 610 x 282 mm	1,947 x 610 x 282 mm	2,187 x 610 x 282 mm
Weight	138.3 kg	179.7 kg	221.1 kg	262.5 kg	303.9 kg	345.3 kg

GENERAL DATA

Operating Temperature	-10 °C to +50 °C
Cell Technology	Lithium Iron Phosphate (LiFePO ₄)
Communication	CAN / RS485
IP Class	IP55
Round-trip Efficiency	≥ 95%
Installation Scene	Indoor / Outdoor Installation
Installation Mode	Floor Stand
Storage Humidity	5% ~ 95%
Altitude	< 3,000 m
Certification	VDE 2510-50 / IEC 62619 / CE / UKCA / UN 38.3
Applications	ON Grid / ON Grid + Backup / OFF Grid
Warranty ^[3]	10 Years

[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] The maximum charge / discharge current may vary depending on temperature, battery state of charge (SOC), and the connected inverter.

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

NOTE

A: 2.76kWh is the initial capacity (designed) of the Energy Storage Module.

B: The actual capacity is affected by the external environment (such as temperature, transportation, and storage).