BYD Energy Storage

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

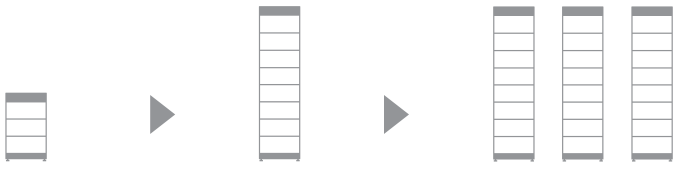
High Performance
High current
Max. continuous charge/discharge current 50A

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

Easy Installation
Patented internal plug connection
One-click configuration

Perfect Compatibility
Compatible with leading single & three phase inverters

BATTERY-BOX HVM+

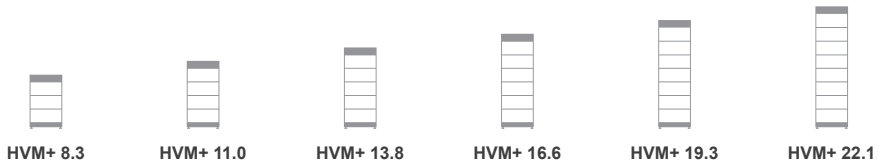


HVM+ 8.3 | HVM+ 22.1 | 3 x HVM+ 22.1

Maximum capacity of
66.2 kWh

BYD Energy Storage

TECHNICAL PARAMETERS **HVM+**



HVM+ 8.3 | HVM+ 11.0 | HVM+ 13.8 | HVM+ 16.6 | HVM+ 19.3 | HVM+ 22.1

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	1227 x 610 x 282 mm	1467 x 610 x 282 mm	1707 x 610 x 282 mm	1947 x 610 x 282 mm	2187 x 610 x 282 mm
Weight	138.8 kg	180.2 kg	221.6 kg	263 kg	304.4 kg	345.8 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	< 3000 m
Certification	VDE2510-50 / IEC62619 / CE / UKCA / UN38.3
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] Power derating will occur between -10°C and +5°C.

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