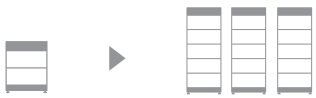
BATTERY-BOX PREMIUM HVS / HVM

- Capable of High-Powered Emergency-Backup and Off-Grid Functionality
- Highest Efficiency Thanks to a Real High-Voltage Series Connection
- The Patented Modular Plug Design Requires no Internal Wiring and Allows for Maximum Flexibility and Ease of Use
- Cobalt Free Lithium Iron Phosphate (LFP) Battery: Maximum Safety, Life Cycle, and Power
- Compatible with Leading 1 and 3 Phase High Voltage Battery Inverters
- Two Distinct Modules to Cover the Complete Range of System Sizes
- Highest Safety Standards like VDE 2510-50

BATTERY-BOX PREMIUM HVS

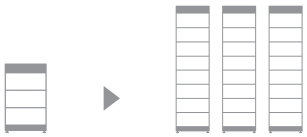
One Battery-Box Premium HVS is composed of 2 to 5 HVS battery modules that are connected in series to achieve a usable capacity of 5.1 to 12.8 kWh.
Additionally, direct parallel connection of up to 3 identical Battery-Box Premium HVS allows a maximum capacity of 38.4 kWh.
Ability to scale by adding HVS modules or parallel HVS stacks later.



HVS 5.1 — 3 x HVS 12.8

BATTERY-BOX PREMIUM HVM

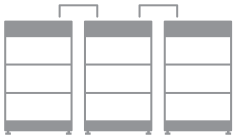
One Battery-Box Premium HVM is composed of 3 to 8 HVM battery modules that are connected in series to achieve a usable capacity of 8.3 to 22.1 kWh.
Additionally, direct parallel connection of up to 3 identical Battery-Box Premium HVM allows a maximum capacity of 66.2 kWh.
Ability to scale by adding HVM modules or parallel HVM stacks later.



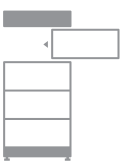
HVM 8.3 — 3 x HVM 22.1

FLEXIBLE, EFFICIENT, SIMPLE

Internal Plug Connection
No Additional Wiring Required



5.1 - 66.2 kWh
Tailored Sizing for Each Application



Extend Anytime
Easily Adapts to New Requirements

High Power
Power for Every Application

BATTERY BOX

TECHNICAL PARAMETERS **PREMIUM HVS / HVM**




	HVS 5.1	HVS 7.7	HVS 10.2	HVS 12.8
Battery Module	HVS (2.56 kWh, 102.4 V, 38 kg)			
Number of Modules	2	3	4	5
Usable Energy [1]	5.12 kWh	7.68 kWh	10.24 kWh	12.8 kWh
Max Output Current [2]	25 A	25 A	25 A	25 A
Peak Output Current [2]	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






	HVM 8.3	HVM 11.0	HVM 13.8	HVM 16.6	HVM 19.3	HVM 22.1
Battery Module [3]	HVM (2.76 kWh, 51.2 V, 35 / 38 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]	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)	995 x 585 x 298 mm	1228 x 585 x 298 mm	1461 x 585 x 298 mm	1694 x 585 x 298 mm	1927 x 585 x 298 mm	2160 x 585 x 298 mm
Weight [4]	119~129 kg	153~167 kg	188~205 kg	222~243 kg	257~281 kg	291~319 kg

	HVS & HVM
Operating Temperature	-10 °C to +50 °C
Battery Cell Technology	Lithium Iron Phosphate (cobalt-free)
Communication	CAN / RS485
Enclosure Protection Rating	IP55
Round-trip Efficiency	≥ 96%
Certification	VDE2510-50 / IEC62619 / CEC / CE / UN38.3
Applications	ON Grid / ON Grid + Backup / OFF Grid
Warranty [5]	10 Years
Compatible Inverters	Refer to BYD Battery-Box Premium HVS / HVM Compatible Inverter List

[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] HVM module has two versions with two types of cells applied separately. Both versions share the same performance, only weights differ.
[4] Two versions of HVM module are adaptable with each other and can be stacked in one tower. The weights of the tower may vary with mixed HVM modules.
[5] Conditions apply. Refer to BYD Battery-Box Premium Limited Warranty Letter.