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.

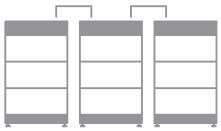


HVM 8.3 — 3 x HVM 22.1

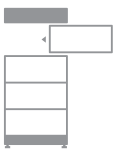
FLEXIBLE, EFFICIENT, SIMPLE



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

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)	762x585x298 mm	995x585x298 mm	1228x585x298 mm	1461x585x298 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	HVM (2.76 kWh, 51.2 V, 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	129 kg	167 kg	205 kg	243 kg	281 kg	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 [3]	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] Conditions apply. Refer to BYD Battery-Box Premium Limited Warranty Letter.