

# 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.

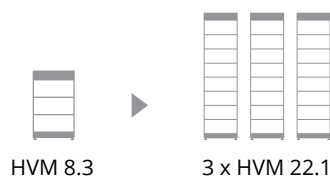


## BATTERY-BOX PREMIUM HVM

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.



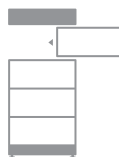
## FLEXIBLE, EFFICIENT, SIMPLE



**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

				
	<b>HVS 5.1</b>	<b>HVS 7.7</b>	<b>HVS 10.2</b>	<b>HVS 12.8</b>
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	160~230.4 V	240~345.6 V	320~460.8 V	400~576 V
Dimensions (H/W/D)	762x585x298 mm	995x585x298 mm	1228x585x298 mm	1461x585x298 mm
Weight	91 kg	129 kg	167 kg	205 kg

						
	<b>HVM 8.3</b>	<b>HVM 11.0</b>	<b>HVM 13.8</b>	<b>HVM 16.6</b>	<b>HVM 19.3</b>	<b>HVM 22.1</b>
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]	40 A	40 A	40 A	40 A	40 A	40 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	120~172.8 V	160~230.4 V	200~288 V	240~345.6 V	280~403.2 V	320~460.8 V
Dimensions (H/W/D)	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.