

# BATTERY-BOX PREMIUM HVL (US)



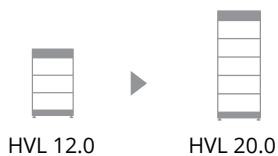
- Capable of High-Powered Emergency-Backup and Off-Grid Functionality
- Highest Efficiency Thanks to a Real High-Voltage Series Connection
- The Patented Modular Plug Design Requires no Internal Wiring and Allows for Maximum Flexibility and Ease of Use
- Cobalt Free Lithium Iron Phosphate (LFP) Battery: Maximum Safety, Life Cycle, and Power
- Compatible with Leading High Voltage Battery Inverters
- Highest Safety Standards

## BATTERY-BOX PREMIUM HVL

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One Battery-Box Premium HVL is composed of 3 to 5 HVL battery modules that are connected in series to achieve a usable capacity of 12 to 20 kWh.

Ability to scale by adding HVL modules later.



## FLEXIBLE, EFFICIENT, SIMPLE

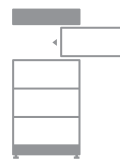
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**Internal Plug Connection**  
No Additional Wiring Required



**12 - 20 kWh**  
Tailored Sizing for Each Application



**Extend Anytime**  
Easily Adapts to New Requirements



**High Power**  
Power for Every Application

## TECHNICAL PARAMETERS PREMIUM HVL



HVL 12.0



HVL 16.0



HVL 20.0

	HVL 12.0	HVL 16.0	HVL 20.0
Battery Module	HVL (4 kWh, 51.2 V, 99.2 lb)		
Number of Modules	3	4	5
Usable Energy [1]	12 kWh	16 kWh	20 kWh
Max Output Current [2]	50 A	50 A	50 A
Peak Output Current [2]	75 A, 3 s	75 A, 3 s	75 A, 3 s
Nominal Voltage	153.6 V	204.8 V	256 V
Operating Voltage	120~173 V	160~230 V	200~288 V
Dimensions (H/W/D)	39.2 x 23.0 x 11.7 inch	48.3 x 23.0 x 11.7 inch	57.5 x 23.0 x 11.7 inch
Weight	330.7 lb	429.9 lb	529.1 lb
Operating Temperature	14 °F to 122 °F		
Battery Cell Technology	Lithium Iron Phosphate (cobalt-free)		
Communication	CAN/RS485		
Enclosure Protection Rating	NEMA 3R		
Round-trip Efficiency	≥ 96%		
Certification	UL1973 / FCC / UN38.3		
Applications	ON Grid / ON Grid + Backup / OFF Grid		
Warranty [3]	10 Years		
Compatible Inverters	Refer to BYD Battery-Box Premium HVL Compatible Inverter List		

[1] DC Usable Energy, Test conditions: 100% DOD, 0.2C charge & discharge at 77 °F. System usable energy may vary due to system configuration parameters.

[2] Charge derating will occur between 14 °F and 41 °F.

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

