

# BATTERY-BOX PREMIUM HVL (US)



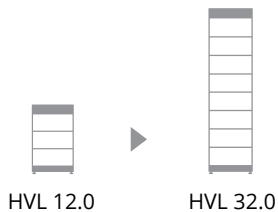
- Capable of High-Powered Emergency-Backup and Off-Grid Functionality
- Highest Efficiency Thanks to a Real High-Voltage Series Connection
- The Patented Modular Plug Design Requires no Internal Wiring and Allows for Maximum Flexibility and Ease of Use
- Cobalt Free Lithium Iron Phosphate (LFP) Battery: 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 8 HVL battery modules that are connected in series to achieve a usable capacity of 12 to 32 kWh.

Ability to scale by adding HVL modules later.



## FLEXIBLE, EFFICIENT, SIMPLE

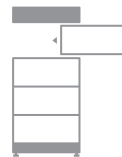
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**Internal Plug Connection**  
No Additional Wiring Required



**12 - 32 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 24.0      HVL 28.0      HVL 32.0

Battery Module	HVL (4 kWh, 51.2 V, 99.2 lb)					
Number of Modules	3	4	5	6	7	8
Usable Energy [1]	12 kWh	16 kWh	20 kWh	24 kWh	28 kWh	32 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	120~172.8 V	160~230.4 V	200~288 V	240~345.6 V	280~403.2 V	320~460.8 V
Dimensions (H/W/D)	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	66.7 x 23.0 x 11.7 inch	75.9 x 23.0 x 11.7 inch	85.0 x 23.0 x 11.7 inch
Weight	330.7 lb	429.9 lb	529.1 lb	628.3 lb	727.5 lb	826.7 lb
Operating Temperature	14 °F to 122 °F					
Battery Cell Technology	Lithium Iron Phosphate (cobalt-free)					
Communication	CAN/RS485					
Enclosure Protection Rating	IP55					
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.

