

# BATTERY-BOX PREMIUM HVL (US)

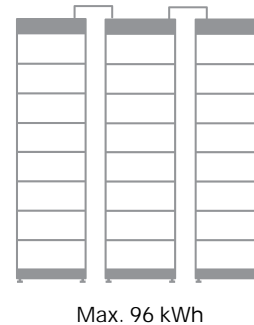
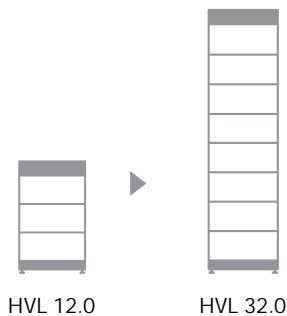
- Capable of High-Powered Emergency-Backup and Off-Grid Functionality
- Highest Efficiency Thanks to a Real High-Voltage Series Connection
- The Patented Modular Plug Design Requires no Internal Wiring and Allows for Maximum Flexibility and Ease of Use
- Cobalt Free Lithium Iron Phosphate (LFP) Battery: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



## BATTERY-BOX PREMIUM HVL

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.

Additionally, direct parallel connection of up to 3 identical Battery-Box Premium HVL allows a maximum capacity of 96 kWh. Ability to scale by adding HVL modules later.



## FLEXIBLE, EFFICIENT, SIMPLE

**Internal Plug Connection**  
No Additional Wiring Required

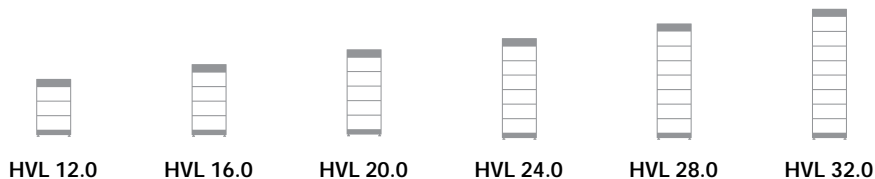
**12 - 96 kWh**  
Tailored Sizing for Each Application

**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 <sup>[1]</sup>	12 kWh	16 kWh	20 kWh	24 kWh	28 kWh	32 kWh
Max Output Current <sup>[2]</sup>	50 A	50 A	50 A	50 A	50 A	50 A
Peak Output Current <sup>[2]</sup>	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	120-173 V	160-230 V	200-288 V	240-345 V	280-403 V	320-460 V
Dimensions (H/W/D)	39.2× 23.0× 11.7 inch	48.3× 23.0× 11.7 inch	57.5× 23.0× 11.7 inch	66.7× 23.0× 11.7 inch	75.9×23.0× 11.7 inch	85.0× 23.0× 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	NEMA 3R					
Round-trip Efficiency	≥ 96%					
Certification	UL9540/ UL9540A/ UL1973/ IEC60730/ FCC/ UN38.3					
Applications	ON Grid/ ON Grid+Backup/ OFF Grid					
Warranty <sup>[3]</sup>	10 Years					
Compatible Inverters	Refer to BYD Battery-Box Premium HVL Compatible Inverter List					

[1] DC Usable Energy, Test conditions: 100 % DOD, 0.2 C charge & discharge at 77 °F. System Usable Energy may vary with different inverter brands.

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

[3] Condition apply. Refer to BYD Battery-Box Premium HVL Limited Warranty.



Quick Guidance



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