# **BATTERY-BOX PREMIUM HVL (US)**

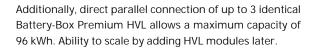
- Capable of High-Powered Emergency-Backup and Off-Grid Functionality
- Highest Efficiency Thanks to a Real High-Voltage Series Connection
- The Patented Modular Plug Design Requires no Internal Wiring and Allows for Maximum Flexibility and Ease of Use
- Cobalt Free Lithium Iron Phosphate (LFP) Battery: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

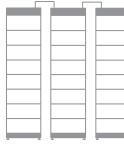


#### BATTERY-BOX PREMIUM HVL

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.

HVL 32.0





Max. 96 kWh

#### FLEXIBLE, EFFICIENT, SIMPLE

HVL 12.0



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×	48.3× 23.0×	57.5× 23.0×	66.7× 23.0×	75.9× 23.0×	85.0× 23.0×					
	11.7 inch	11.7 inch	11.7 inch	11.7 inch	11.7 inch	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/ OGPE/ CEC										
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  $^\circ F$  and 41  $^\circ F.$
- [3] Condition apply. Refer to BYD Battery-Box Premium HVL Limited Warranty.







## **BYD BATTERY-BOX PREMIUM HVL COMPATIBLE INVERTER LIST – V1.4**



Inverter		Module Quantity	Minimum Firmware Version						
			Single Tower			Parallel Connection			
			Invertor	Battery-Box		Invortor	Battery-Box		
		HVL	Inverter	BMU	BMS	Inverter	BMU	BMS	
SMA	SBSE 3.8/ 4.8/ 5.8/ 7.7	3-8	1.00.00.R	3.22	3.27	1.00.00.R	3.22	3.27	
Solis	S6-EH1P(3.8-11.4)K-H-US	3-8	A2	3.22	3.27	A2	3.22	3.27	
GoodWe	A-ES Series	3-8	V17	3.16	3.23	V17	3.16	3.23	
	A-BP Series	3-8	V17	3.16	3.23	V17	3.16	3.23	

#### Note:

- Installation before official release is not allowed. •
- Always install the latest firmware on the Battery-Box! •
- Requirements for Parallel Connection: Maximum three battery systems could be connected in parallel; Every ٠ tower connected in parallel requires the same module quantity.

The Information in this document is subject to change without notice. Please take the latest version of this document at our websites into account.



#### **BYD Company Limited**

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