

# BATTERY-BOX PREMIUM HVL (US)

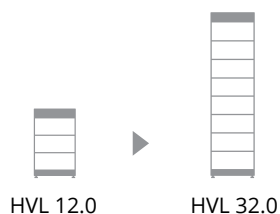
- Capable of High-Powered Emergency-Backup and Off-Grid Functionality
- Highest Efficiency Thanks to a Real High-Voltage Series Connection
- The Patented Modular Plug Design Requires no Internal Wiring and Allows for Maximum Flexibility and Ease of Use
- Cobalt Free Lithium Iron Phosphate (LFP) Battery: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

Ability to scale by adding HVL modules later.



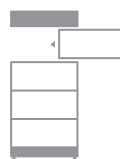
## FLEXIBLE, EFFICIENT, SIMPLE



**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           | 120~173 V   | 160~230 V   | 200~288 V   | 240~345 V   | 280~403 V   | 320~460 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 | NEMA 3R   |   |   |   |   |   |
| Round-trip Efficiency       | ≥96%  |   |   |   |   |   |
| Certification               | UL1973 / IEC60730 / 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.



BYD Company Limited  
www.bydbatterybox.com  
Global Sales: batteryboxgrp@byd.com  
Global Service: bboxeservice@byd.com

BYD US Service  
bboxeservice@byd.com

Battery-Box EU Service Partner  
EFT-Systems GmbH  
www.eft-systems.de  
service@eft-systems.de

Battery-Box AU Service Partner  
Alps Power Pty Ltd  
www.alppower.com.au  
service@alppower.com.au

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