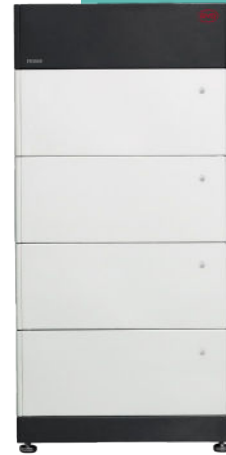


# BATTERY-BOX PREMIUM LVS

- Scalable from 4 kWh to 256 kWh
- Maximum Flexibility for any Application with up to 64 Modules Connected in Parallel
- Compatible with Market Leading 1 and 3 Phase Inverters
- Cobalt Free Lithium Iron Phosphate (LFP) Battery: Maximum Safety, Life Cycle and Power
- Capable of High-Powered Emergency-Backup and Off-Grid Function
- Patented Internal Plug Design Requires No Additional Wiring
- Self-Consumption Optimization for Residential and Commercial Applications



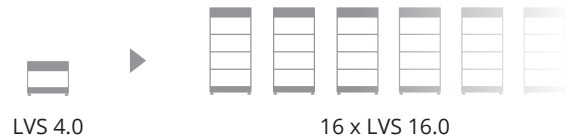
## BATTERY-BOX PREMIUM LVS

- 4 kWh Module
- Modular Design Simplifies Transport and Installation

The BYD Battery-Box Premium LVS is a lithium iron phosphate (LFP) battery pack for use with an external inverter. A single Battery-Box Premium LVS contains between 1 to 6 battery modules LVS stacked in parallel and can reach 4 to 24.0 kWh usable capacity in one tower:

- Battery-Box LVS 4.0 (4 kWh)
- Battery-Box LVS 8.0 (8 kWh)
- Battery-Box LVS 12.0 (12 kWh)
- Battery-Box LVS 16.0 (16 kWh)
- Battery-Box LVS 20.0 (20 kWh - single tower only)
- Battery-Box LVS 24.0 (24 kWh - single tower only)

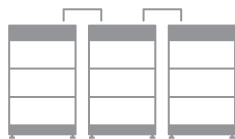
Connect up to 16 Battery-Box LVS 16.0 in parallel for a maximum size of 256 kWh. Ability to scale by adding LVS modules or parallel towers of 1 to 4 modules later.



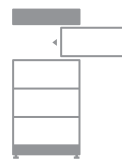
## FLEXIBLE, EFFICIENT, SIMPLE



**Internal Plug Connection**  
No Additional Wiring Required



**4 - 256 kWh**  
Tailored Sizing for Each Application



**Extend Anytime**  
Easily Adapts to New Requirements



**High Power**  
Power for Every Application

## TECHNICAL PARAMETERS **PREMIUM LVS**

|                              |  |  |  |  |  |  |
|------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                              | LVS 4.0                                                                           | LVS 8.0                                                                           | LVS 12.0                                                                          | LVS 16.0                                                                            | LVS 20.0                                                                            | LVS 24.0                                                                            |
| Battery Module               | LVS (4 kWh, 51.2 V, 45 kg)                                                        |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Number of Modules            | 1                                                                                 | 2                                                                                 | 3                                                                                 | 4                                                                                   | 5                                                                                   | 6                                                                                   |
| Usable Energy [1]            | 4 kWh                                                                             | 8 kWh                                                                             | 12 kWh                                                                            | 16 kWh                                                                              | 20 kWh                                                                              | 24 kWh                                                                              |
| Max Cont. Output Current [2] | 65 A                                                                              | 130 A                                                                             | 195 A                                                                             | 250 A                                                                               | 250 A                                                                               | 250 A                                                                               |
| Peak Output Current [2]      | 90 A, 5 s                                                                         | 180 A, 5 s                                                                        | 270 A, 5 s                                                                        | 360 A, 5 s                                                                          | 360 A, 5 s                                                                          | 360 A, 5 s                                                                          |
| Dimensions (H/W/D)           | 528 x<br>650 x 298 mm                                                             | 761 x<br>650 x 298 mm                                                             | 994 x<br>650 x 298 mm                                                             | 1227 x<br>650 x 298 mm                                                              | 1460 x<br>650 x 298 mm                                                              | 1693 x<br>650 x 298 mm                                                              |
| Weight                       | 64 kg                                                                             | 109 kg                                                                            | 154 kg                                                                            | 199 kg                                                                              | 244 kg                                                                              | 289 kg                                                                              |
| Nominal Voltage              | 51.2 V                                                                            |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Operating Voltage            | 40-57.6 V                                                                         |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Operating Temperature        | -10 °C to +50°C                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Battery Cell Technology      | Lithium Iron Phosphate (cobalt-free)                                              |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Communication                | CAN / RS485                                                                       |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Enclosure Protection Rating  | IP55                                                                              |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Round-Trip Efficiency        | ≥95%                                                                              |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Scalability [3]              | Max. 64 Modules in Parallel (256 kWh)                                             |                                                                                   |                                                                                   |                                                                                     | Single Tower Only                                                                   |                                                                                     |
| Certification                | VDE2510-50 / IEC62619 / CE / CEC / UN38.3                                         |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Applications                 | ON Grid / ON Grid + Backup / OFF Grid                                             |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Warranty [4]                 | 10 Years                                                                          |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Compatible Inverters         | Refer to BYD Battery-Box Premium LVS Minimum Configuration List                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |

[1] DC Usable Energy, Test conditions: 100% DOD, 0.2C charge & discharge at + 25 °C. System Usable Energy may vary with different inverter brands

[2] Charge derating will occur between -10 °C and +5 °C

[3] Parallel tower function only available for 1 to 4 battery modules per tower. LVS 20.0 and LVS 24.0 can only be used as a single tower.

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



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V2.1

