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

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

<table>
<thead>
<tr>
<th>Battery Module</th>
<th>LVS 4.0</th>
<th>LVS 8.0</th>
<th>LVS 12.0</th>
<th>LVS 16.0</th>
<th>LVS 20.0</th>
<th>LVS 24.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>LVS (4 kWh, 51.2 V, 45 kg)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Number of Modules</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Usable Energy [1]</td>
<td>4 kWh</td>
<td>8 kWh</td>
<td>12 kWh</td>
<td>16 kWh</td>
<td>20 kWh</td>
<td>24 kWh</td>
</tr>
<tr>
<td>Peak Output Current [2]</td>
<td>90 A, 5 s</td>
<td>180 A, 5 s</td>
<td>270 A, 5 s</td>
<td>360 A, 5 s</td>
<td>360 A, 5 s</td>
<td>360 A, 5 s</td>
</tr>
<tr>
<td>Dimensions (H/W/D)</td>
<td>478 x 650 x 298 mm</td>
<td>711 x 650 x 298 mm</td>
<td>944 x 650 x 298 mm</td>
<td>1177 x 650 x 298 mm</td>
<td>1410 x 650 x 298 mm</td>
<td>1643 x 650 x 298 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>64 kg</td>
<td>109 kg</td>
<td>154 kg</td>
<td>199 kg</td>
<td>244 kg</td>
<td>289 kg</td>
</tr>
</tbody>
</table>

- **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

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[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.