BYD HIGH VOLTAGE ENERGY STORAGE PRODUCTS

B-BOX-H5/6/7/8/9

System Introduction
The B-BOX-H product is specially designed for ON/OFF grid application in household, relies on the cutting-edge BYD Lithium Iron-Phosphate battery for streamlined energy storage. The system includes battery module and BMU that for battery management and communication.

The flexible modular design can meet various requirements on voltage, single battery module · B-Plus-H is 51.2Vdc 25Ah supports max output 2C discharge and series connection to 460Vdc. The flexible modular design is able to be set up with 5~9 battery modules in one rack to meet the higher voltage requirement up to 460Vdc. B-BOX-H supports different storage capacities, the capacity can be extended (from 6.25 up to 56.25 kWh) by parallel connection of battery racks.

System Features
- Flexible capacity configuration
- Support system parallel connection
- Support CAN communication
- Modular design
- Easy to Install

- No pollution
- High temperature performance
- Long cycle life
- Excellent safety performance
- Discharge plant Stable

B-BOX-H5  

B-BOX-H9

B-Plus-H

B-Plus-H, BYD standard product that has been widely used in Energy Storage applications.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>B-BOX-H5</th>
<th>B-BOX-H6</th>
<th>B-BOX-H7</th>
<th>B-BOX-H8</th>
<th>B-BOX-H9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery type</td>
<td>LiFePO4</td>
<td>LiFePO4</td>
<td>LiFePO4</td>
<td>LiFePO4</td>
<td>LiFePO4</td>
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<tr>
<td>Output power</td>
<td>1.28 kW</td>
<td>1.28 kW</td>
<td>1.28 kW</td>
<td>1.28 kW</td>
<td>1.28 kW</td>
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<tr>
<td>Peak power</td>
<td>2.56 kW</td>
<td>2.56 kW</td>
<td>2.56 kW</td>
<td>2.56 kW</td>
<td>2.56 kW</td>
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<tr>
<td>Capacity</td>
<td>±25 kWh</td>
<td>±25 kWh</td>
<td>±25 kWh</td>
<td>±25 kWh</td>
<td>±25 kWh</td>
</tr>
<tr>
<td>Nominal voltage</td>
<td>51.2V</td>
<td>51.2V</td>
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<td>51.2V</td>
<td>51.2V</td>
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<tr>
<td>Working voltage</td>
<td>40.57FVd</td>
<td>40.57FVd</td>
<td>40.57FVd</td>
<td>40.57FVd</td>
<td>40.57FVd</td>
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<tr>
<td>Operating temperature</td>
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<td>-10°C~+50°C</td>
<td>-10°C~+50°C</td>
<td>-10°C~+50°C</td>
<td>-10°C~+50°C</td>
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<tr>
<td>Storage temperature</td>
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<td>-10°C~+45°C</td>
<td>-10°C~+45°C</td>
<td>-10°C~+45°C</td>
<td>-10°C~+45°C</td>
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<td>Transport</td>
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<td>UN3880 &amp; UN3833</td>
<td>UN3880 &amp; UN3833</td>
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<tr>
<td>Dimension(W<em>H</em>D)</td>
<td>542mm<em>1158mm</em>290mm</td>
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<td>542mm<em>1158mm</em>290mm</td>
<td>542mm<em>1158mm</em>290mm</td>
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<tr>
<td>Net Weight</td>
<td>20kg</td>
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<tr>
<td>Capacity extension</td>
<td>Can support max 9 modules in series connection in one rack</td>
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Applications
- Residential PV Installations for home self-consumption applications
- Commercial and Industrial installations for peak shaving

System parameters

- Type
- B-BOX-H5  
- B-BOX-H6  
- B-BOX-H7  
- B-BOX-H8  
- B-BOX-H9

- Battery module: B-Plus-H*5
- Output power: 6.4 kW
- Usable Capacity: 6.25 kWh
- Nominal voltage: 256V
- Working voltage: 200-288Vdc
- Energy efficiency: +95% (+25°C)
- Dimension(W*H*D/mm): 542*758*290
- Net Weight: About 115kg
- Communication: RS485/CAN
- Warranty: 10 years (25°C, 100% DD4)
- Operating temperature: -10°C~+50°C
- Storage temperature: -10°C~+40°C
- Capacity extension: 31.25 kWh in parallel, 37.50 kWh in parallel, 45.75 kWh in parallel, 50 kWh in parallel, 56.25 kWh in parallel

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