

# BYD Residential Energy Storage Solution

## B-Box HV

B-Box HV is the high voltage battery energy storage system which can storage the extra energy from the solar panel and generate electricity to the load by the inverter's conversion. It can be used in ON Grid, Off GRID applications, and 1 or 3 phase grid. Thanks to the modular design, it meet various requirements of End user with the ability of storage 5kWh to 50kWh energy.

## Features

### Safe Chemistry System

B-Box is designed with **LiFePO4 chemistry** battery which has been widely recognized as one of the safest battery technologies.

### Railway and Automotive Standard Battery

World's largest Electric Vehicle manufacturer, B-Box. Brings 6+ years' track records of large scale applications in Electric Vehicles ensure its reliability.

### High Power Output

B-Box has the highest output power in industry, which **brings the highest performance to customers.**

### Easy Installation and Uninterruptible Maintenance

All B-Box systems have modular design featuring easy installation. **Support remote monitor & update by cloud service.**

### Natural Cooling

B-Box is designed with natural cooling providing optimum efficiency.

### 10 Years Warranty

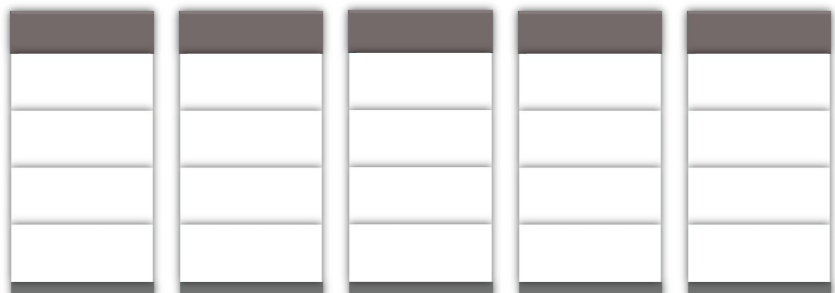
10 Years Warranty provides the best guarantee of operation.

### Flexible Extension Life Time and Capacity scalability

B-Box is equipped with modular design and smart BMS (Battery Management System), allowing extension throughout its lifetime.

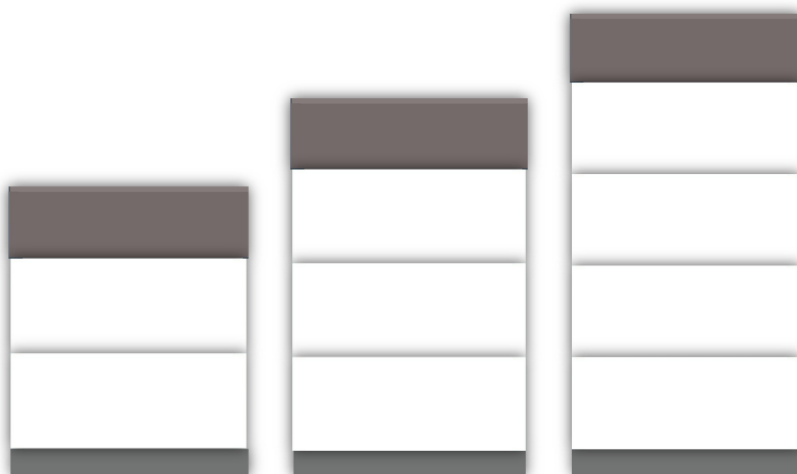


Single 10kWh System



More 10kWh Systems, up to 5 systems in parallel connection to reach 51.2kWh. will be available in June.

# Specifications



Models		B-Box H 5.12	B-Box H 7.68	B-Box H 10.24
Battery Type		LiFePO4		
Battery Module		B-Plus-H (2.56 kWh)		
		2 modules	3 modules	4 modules
Usable Energy <sup>[1]</sup> [kWh]		5.12	7.68	10.24
Max. Output Power [kW]		5.12	7.68	10.24
Peak Output Power [kW]		10.24, 5mins	15.36, 5mins	20.48, 5mins
Round-Trip Efficiency		≥95.3% (Under test condition [1] )		
Nominal Voltage [V]		204	307	409
Operating Voltage Range [V]		160~225	240~338	320~451
Communication		CAN / RS485		
Dimension [W×H×D]	mm	580 × 725 × 360	580 × 960 × 360	580 × 1195 × 360
	Inch	22,83 × 28.54 × 14.17	22,83 × 37.79 × 14.17	22,83 × 47.04 × 14.17
Net Weight [lbs/kg]		About 233.9 / 106	About 328.8 / 149	About 423.6 / 192
Enclosure Protection		NEMA 3/IP55		
Optimal Operating Temperature Range <sup>[2]</sup> [°F/°C]		14 to 122°F (-10 to 50°C)		
Certification & Safety Standard		TUV / CE / UL		
Compatible Inverters		Will finish compatible with SMA on Jan,2018.More brands will be announced		

[1] Test conditions: 100% DOD, 0.5C charge & discharge @77°F ( 25°C )

[2] 14°F~50°F ( -10°C~10°C ) will be derating.

\* System Usable Energy may be variant with different inverter brands.

BYD reserves the right to modify the parameters without prior notice.

## Global Contact:

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