



BYD ENERGY STORAGE PRODUCTS(B-BOX)

B-BOX 2.5-10.0



Brief introduction

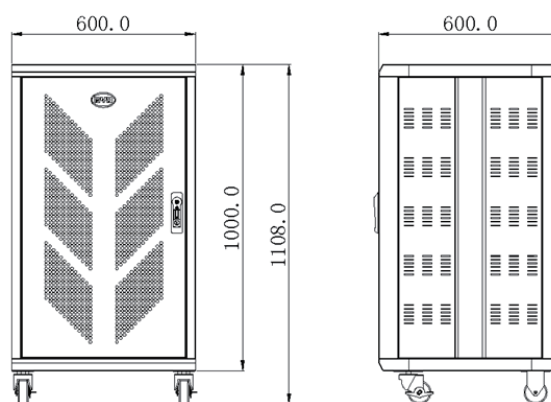
Battery Box takes along BYD reliable Fe battery which can be used as energy storage unit in energy storage system. The modular design gives flexibility of 1/2/3/4 pcs of battery modules in one battery rack.

B-Box is able to meet the requirement of different storage by increasing the capacity through parallel connection of battery rack.

Features of system

- Flexible capacity configuration
- Support system parallel connection
- Support RS485 or CAN communication
- Modular design
- Easy to Install
- Emergency stop function

System dimension



Application

- Residential PV Installations for self-consumption applications
- Commercial and Industrial installations for peak shaving
- Telecom industry for back up power
- Micro-grid



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B-Plus2.5

BYD standard 3U battery—U3A1-50E-A which is CE and TUV certified, had been widely used in Telecom and Energy Storage applications in global market. The battery is manufactured by BYD LiFePo4 technology with annual capacity of 10GWh.

Features of battery

- Stable discharge plant
- Excellent safety performance
- Long cycle life
- High temperature performance
- High energy density
- High charge & discharge rate
- High energy transfer efficiency
- No pollution

	B-Box 2.5	B-Box 5.0	B-Box 7.5	B-Box 10.0
Battery Type	Iron phosphate battery			
Battery module	B-plus2.5*1PCS	B-plus2.5*2PCS	B-plus2.5*3PCS	B-plus2.5*4PCS
Rated battery energy (0.2C charge&discharge at @+25 C)	2.5 Kwh	5 Kwh	7.5 Kwh	10 Kwh
Output power	Max 2.5 Kw	Max 5 Kw	Max 7.5 Kw	Max 10Kw
Usable battery energy	2.3Kwh	4.5Kwh	6.8Kwh	9 kwh
Nominal voltage	51.2V			
Battery combine No	B-plus2.5*1PCS	B-plus2.5*2PCS	B-plus2.5*3PCS	B-plus2.5*4PCS
Energy efficiency	>97%			
BMS with Equalization	Yes			
Working voltage	44.8V-57.6V			
Communication	RS485/CAN			
Dimension of cabinet	Width 600* depth 600* mm height 1108 (with wheels)			
Net Weight of B-BOX	88Kg	126Kg	164Kg	202Kg
Dimension of B-plus 2.5	Width 482.6* depth 489.5* mm *height 130mm			
Net Weight of B-plus 2.5	38Kg			
Battery Cycle life	6000[100%DOD,+20 C ,80% Capacity left]			
Operating temperature	0 C ~+55 C			
Storage temperature	-20 C ~55 C			
Transport	UN3480 & UN38.3			
Storage duration	12 months@+25 C; 6 months@+35 C; 3 months@+45 C			
EMC standard compliance	EN 61000 chapter 4.2,4.3,4.5,4.6/EN55022			
Safety standard compliance	UL1642 for cell; CE and TUV(JP) for battery module			
IP level	IP20			
Maintenance	Charge the battery half a year when storage or inactive status			
Scalability	/	/	/	Yes , Up to 40Kwh

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