



BYD ENERGY STORAGE PRODUCTS - BATTERY BOX (B-BOX)



Introduction

The Battery Box relies on the cutting-edge BYD Iron-Phosphate battery for streamlined energy storage.

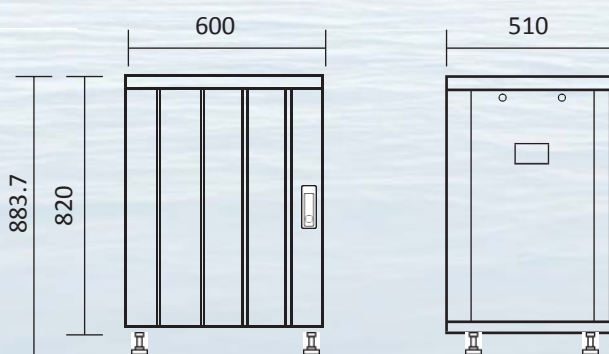
The flexible modular design enables it to be set up with 1 to 4 battery modules in one rack.

The B-Box 2.5-10.0 features different storage capacities, according to user requirements. Capacity can be increased through parallel connection of the battery racks.

System Features

- Flexible capacity configuration
- Support system parallel connection
- Support RS485/CAN communication
- Modular design
- Easy to Install

System Dimensions



Applications

- Residential PV Installations for household energy demands
- Commercial and Industrial installations for peak shaving
- Telecom industry for back up power
- Micro-grid
- The B-BOX is compatible with the following inverters
SMA: SI3.OM, SI4.4M, SI6.OH, SI8.OH
GOODWE: GW3648D-ES, GW5048D-ES, GW2500-BP



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B-Plus2.5

The BYD standard 3U battery—U3A1-50P-A which is CE and TUV certified, has been widely used in Telecom and Energy Storage applications on the global market. The battery is produced with the BYD LiFePo4 technology and has an annual capacity of 10GWh.

Battery Features

- Stable discharge platform
- Excellent safety performance
- Long life cycle
- 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 capacity	2.56 kWh	5.12 kWh	7.68 kWh	10.24 kWh
Output power	Max 2.5 kW	Max 4.6 kW	Max 6.9 kW	Max 9.2 kW
Usable battery energy [1]	2.45 kWh	4.91 kWh	7.37 kWh	9.83 kWh
Nominal voltage	51.2 V			
Number of battery modules	1 modules	2 modules	3 modules	4 modules
BMS with Equalization	Yes			
Operating voltage	44.8V-57.6Vdc			
Communication	RS485/CAN			
Dimension of cabinet (mm)	Width 600*depth 510*height 883.7			
Net Weight of B-BOX	78 Kg	116 Kg	154 Kg	192 Kg
Dimensions of B-plus 2.5 (mm)	Width 482.6 × depth 400 × height 130			
Net Weight of B-plus 2.5	36.8 Kg			
Battery cycle life [+25°C]	>6000			
Charging efficiency	99%			
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	Safety Guidelines for Li-ion household battery system, Version 1.0E (Sicherheitsleitfaden Li-Ionen-Hausspeicher) IEC 62619/UN 38.3/UL1642			
Certificate	TUV / CE / UL1642			
IP level	IP20			
Scalability	/	/	/	Yes , Up to 80 Kwh

[1] Test conditions: 0.3C discharge@+25°C