

BYD ENERGY STORAGE PRODUCTS B-BOX RESIDENTIAL



B-BOX 2.5/5.0/7.5/10.0



Introduction

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

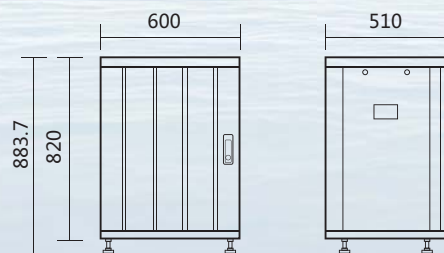
The flexible modular design enables it to be set up with 1 to 4 battery modules in one rack.(2.5~10kWh)

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.(Up to 80kWh)

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
- The B-BOX is used with an external battery inverter SMA Sunny island or GOODWE ES

BYD ENERGY STORAGE PRODUCTS B-BOX RESIDENTIAL



B-BOX 2.5/5.0/7.5/10.0



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 14GWh.

Battery Features

- Stable discharge platform
- High energy density
- Excellent safety performance
- High charge & discharge rate
- Long life cycle
- High energy transfer efficiency
- High temperature performance
- 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 5 kW	Max 7.5 kW	Max 10 kW
Usable battery energy [1]	2.45kWh	4.90 kWh	7.35 kWh	9.80 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	RS232/RS485/CAN			
Dimension of cabinet (mm)	Width 600*depth510*height 883.7			
Net Weight of B-BOX	88Kg	126Kg	164Kg	202Kg
Dimensions of B-plus 2.5 (mm)	Width 482.6 × depth 478 × height 130			
Net Weight of B-plus 2.5	34.8 Kg			
Battery cycle life [+25°C]	>6000			
Charging efficiency	99%			
Operating temperature	0°C~+50°C			
Storage temperature	-10°C~+40 °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 / RCM / UL1642			
IP level	IP20			
Scalability	Yes , Up to 80 Kwh			

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

BYD COMPANY LIMITED

Address: No.3009, BYD Road, Pingshan, Shenzhen, 518118, P.R.China

Tel: +86-755-8988 8888-53260 Fax: +86-755-8483 5502 E-mail: eubatterygrp@byd.com Web: www.byd.com/energy

www.byd.com Facebook.com/bydcompany Twitter.com/bydcompany Youtube.com/bydcompany

