

BYD ENERGY STORAGE PRODUCTS(B-BOX)



B-BOX 2.5-10.0



Brief introduction

The BYD B-Box is a lithium iron phosphate (LiFePO4) battery unit with battery management system (BMS) for usage with an external inverter or charger.

Thanks to its modular design B-Box grows with its requirements:

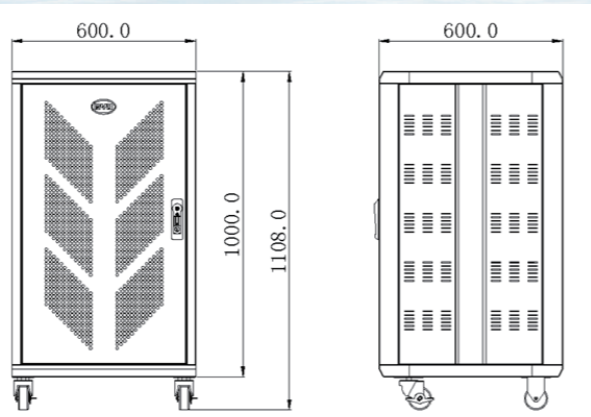
- B-Box 2.5 (2,5 KW/2,4 KWh)
- B-Box 5.0 (5,0 KW/4,8 KWh)
- B-Box 7.5 (7,5 KW/7,2 KWh)
- B-Box 10.0 (10,0 KW/9,6 KWh)

All systems can be extended with the battery modules B-Plus 2.5. This way in parallel interconnection up to 10 KWh (9,6 KWh usable) per PCS and 80KWh in 8 PCS (76,8 KWh usable) are possible.

Features of system

- Flexible combination of capacity
- Parallel interconnection of several systems
- Support for RS485-/CAN-communication
- Modular design simplifies transport and installation (19" plug-in units)
- Lithium iron phosphate (LiFePO4) battery: Maximum security, cycle-stability, energy density, depth of discharge and efficiency
- Emergency stop switch

System dimension



Application

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



BYD ENERGY STORAGE PRODUCTS(B-BOX)



B-BOX 2.5-10.0



B-Plus2.5

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

Features of battery

- Stable discharge platform
- Excellent safety performance
- Long cycle life
- High energy density
- High charge & discharge rate
- 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 energy (0.2C charge&discharge at @+25 C) | 2.5KWh | 5KWh | 7.5KWh | 10KWh |
| Output power | Max 2.5KW | Max 5KW | Max 7.5KW | Max 10KW |
| Usable battery energy | 2.4KWh | 4.8KWh | 7.2KWh | 9.6KWh |
| 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 (mm) | Width 600*depth 600*height 1000 (without wheels) | | | |
| Net Weight of B-BOX | 88Kg | 126Kg | 164Kg | 202Kg |
| Dimension of B-plus 2.5 (mm) | Width 482.6*depth 489.5*height 130 | | | |
| Net Weight of B-plus 2.5 | 38Kg | | | |
| Battery Cycle life | >6000[+25 C , 0.4C] | | | |
| 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 TÜV(JP) for battery module | | | |
| IP level | IP20 | | | |
| Maintenance | Charge the battery half a year when storage or inactive status | | | |
| Scalability | / | / | / | Yes , Up to 80KWh |

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

Discover more about BYD on
www.byd.com [Facebook.com/bydcompany](https://www.facebook.com/bydcompany) [Twitter.com/bydcompany](https://twitter.com/bydcompany) [Youtube.com/bydcompany](https://www.youtube.com/bydcompany)



BYD ENERGY STORAGE PRODUCTS(B-BOX)



B-BOX 12.8



Brief introduction

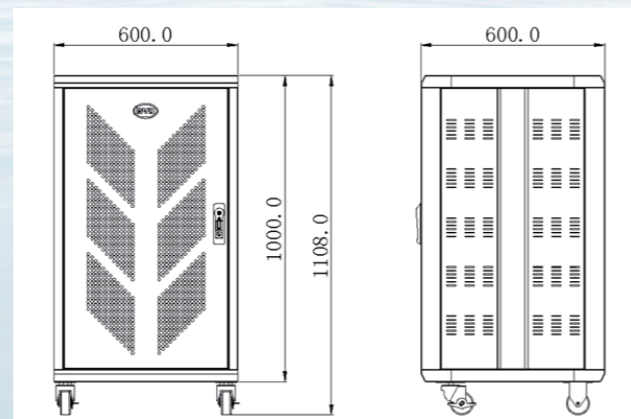
The BYD B-Box is a lithium iron phosphate (LiFePO4) battery unit with battery management system (BMS) for usage with an external inverter or charger.

Thanks to its modular design, the B-Box grows with its requirements. Start with B-Box 12.8 and extend anytime up to B-Box 409 (B-Box12.8 X 32) using parallel interconnection.

Features of system

- Parallel interconnection of several systems
- Flexible combination of capacity
- Support for RS485-/CAN-communication
- Lithium iron phosphate (LiFePO4) battery: Maximum security, cycle-stability, energy density, depth of discharge and efficiency
- Emergency stop switch
- Easy to install

System dimension



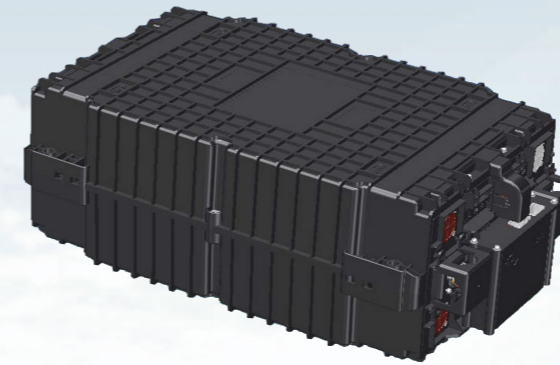
Application

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

BYD ENERGY STORAGE PRODUCTS(B-BOX)



B-BOX 12.8



B-Plus12.8

BYD standard 51.2V 250Ah battery is UL1642 certified, had been widely used in e-Bus 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 platform
- Excellent safety performance
- Long cycle life
- High temperature performance
- High energy density
- High charge & discharge rate
- High energy transfer efficiency
- No pollution

B-Box 12.8 Parameters

| | |
|----------------------------|--|
| Battery Type | Iron phosphate battery B-plus 12.8 |
| Battery module | B-plus 12.8 (51.2V 250Ah) |
| Rated battery energy | 12.8KWh (0.2C charge&discharge at @+25 C) |
| Usable battery energy | 12.0KWh |
| Output power | Max 12.8KW |
| Nominal voltage | 51.2V |
| Energy efficiency | >97% |
| BMS with Equalization | Yes |
| Working voltage | 44.8V-57.6V |
| Communication | RS485/CAN |
| Dimension (mm) | Width 600*depth 600*height 1108 (with wheels) |
| Net Weight | 180kg |
| Battery Cycle life | >6000 [+25 C , 0.4C] |
| 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; UL1973 for battery module |
| IP level | IP20 |
| Maintenance | Charge the battery half a year when storage or inactive status |
| Scalability | Yes , up to 409KWh |

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

Discover more about BYD on

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

