



BYD ENERGY STORAGE PRODUCTS B-BOX COMMERCIAL

B-BOX 12.8

Brief introduction

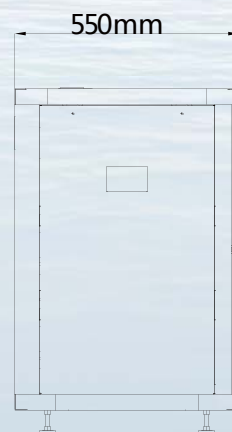
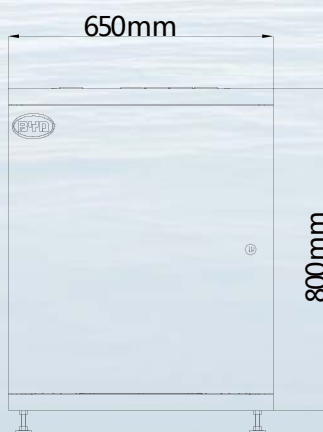
The BYD B-Box is a lithium iron phosphate (LiFePO₄) battery unit with battery management system (BMS) for usage with an external inverter or charger.

Thanks to its modular design, the B-Box grows with its requirements. Start with B-Box 12.8 and extend anytime up to 409kWh (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
- Easy to install

System dimension



Application

- Residential PV Installations for self-consumption applications
- Commercial and Industrial installations for peak shaving
- The B-Box is used with an external battery inverter like the SMA Sunny Island or the Goodwee ES.



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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 produced with the BYD LiFePO4 technology which has an annual production capacity of 14 GWh.

Features of battery

- Stable discharge platform
- Excellent safety performance
- Long cycle life
- 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	12.8 kWh (0.2C charge&discharge at @+25 °C)
Usable battery energy	12.0 kWh
Output power	Max 12.0 kW
Nominal voltage	51.2V
Charge efficiency	>99%
BMS with Equalization	Yes
Working voltage	44.8V~57.6V
Communication	RS485/CAN
Dimension (mm)	Width 650*depth 550*height 800
Net Weight	180kg(with battery)
Battery Cycle life	>6000 [+25°C, 0.4C]
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	UL1642 for cell;
IP level	IP20
Maintenance	Charge the battery half a year when storage or inactive status
Scalability	Yes , up to 409 kWh

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