



Build Your Dreams



B-Box 2.5 - 10.0 B-Plus 2.5

B-Box 2.5 to B-Box 10.0



- **Flexible combination** of capacity
- **Modular design** simplifies transport and installation (19" plug-in units)

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	2,50 kW	2,45 kWh
• B-Box 5.0	5,00 kW	4,90 kWh
• B-Box 7.5	7,50 kW	7,35 kWh
• B-Box 10.0	10,00 kW	9,80 kWh

All systems can be extended with the battery modules **B-Plus 2.5**. This way in parallel interconnection up to **10 kW/9,80 kWh** per PCS and **80 kW/78,40 kWh** in 8 PCS are possible.

B-Plus 2.5



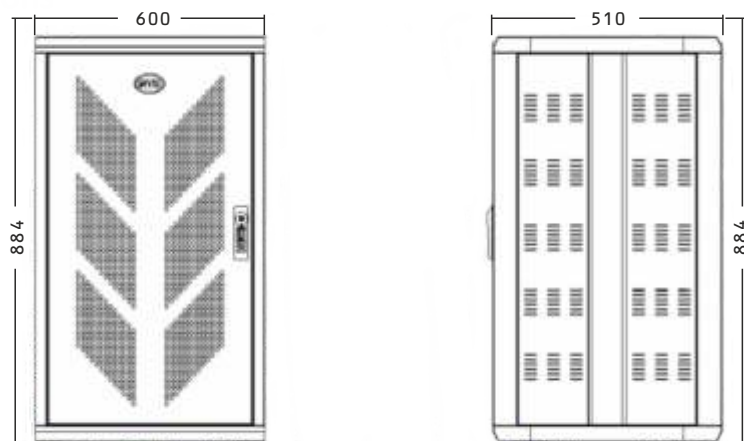
- **CE certified** BYD B-Plus 2.5 module (Type: U3A1-50P-A)
- **Proven and tested** in telecommunications and energy storage applications worldwide
- **Environment-friendly, high-performance** LiFePO₄ battery technology

Technical features

- **Parallel interconnection** of several systems
- Support for **CAN**-communication
- **RJ45-interface** for communication with superordinate control unit
- LiFePO₄ battery technology - high degree of safety; efficiency and durability
- Emergency stop switch

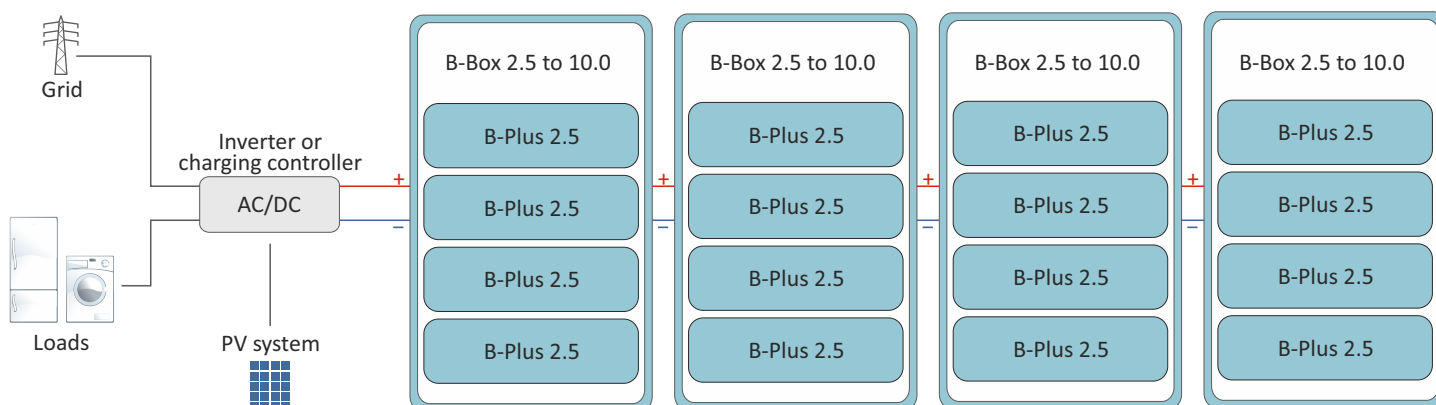
Your energy storage expert:

Dimensions



Build Your Dreams

System structure



Technical parameters according to manufacturer

	B-Box 2.5	B-Box 5.0	B-Box 7.5	B-Box 10.0	B-Plus 2.5
Battery type	Lithium iron phosphate (LiFePO ₄)				
Battery configuration	1 x B-Plus 2.5 (44 Ah; 51,2 V)	2 x B-Plus 2.5 (44 Ah; 51,2 V)	3 x B-Plus 2.5 (44 Ah; 51,2 V)	4 x B-Plus 2.5 (44 Ah; 51,2 V)	Battery module 44 Ah; 51,2 V
Usable capacity	2,45 kWh	4,9 kWh	7,35 kWh	9,8 kWh	2,45 kWh
Nominal output	max. 2,5 kW	max. 5 kW	max. 7,5 kW	max. 10 kW	max. 2,5 kW
Nominal voltage	51,2 V _{DC}				
Efficiency	> 97 %				
Battery management	Yes				
Active balancing	Yes				
Voltage range	44,8 - 57,6 V _{DC}				
Interfaces	CAN				
No. of cycles	> 6.000 (+25 °C; 0,4 C)				
Storage temperature	-20 °C to +55 °C				
Storage period	12 months at +25 °C, 6 months at +35 °C, 3 months at +45 °C; while storing or inactive state of the battery, charge all 6 months				
Operating temperature	0 °C to +50 °C				
Altitude above mean sea level	< 2.000 m				
Warranty	10 years warranty for > 80 % usable capacity at a maximum of one full cycle per day				
Certifications	CE for battery module (Typ: U3A1-50P-A), UL 1642 for cell, EMC (EN 61 000 chapter 4.2, 4.3, 4.5, 4.6/EN55022), dangerous goods (UN3480, UN38.3), IEC 62619, Safety Guidelines for Li-ion household battery system				
IP protection class	IP 20				
Dimensions (W/D/H)	600 x 510 x 884 mm				483 x 400 x 130 mm
Weight	78 kg	116 kg	154 kg	192 kg	36,8 kg