



Build

Your

Dreams

NEW

ENERGY



Safe Battery Chemistry

B-Box is designed with LiFePO_4 chemistry battery which has been widely recognized as one of the safest battery technologies. LiFePO_4 chemistry features stable structures and its thermal runaway temperature is over 480°C . That's 100% higher than NCM and NCA chemistry. It is designed for residential and commercial applications with absolute safety.

Railway and Automotive Standard Battery

As the world's largest Electric Vehicle manufacturer, BYD brings railway and automotive battery standards to residential and commercial solutions: B-Box. 6+ years' track records of large scale applications in Electric Vehicles ensure its safety and reliability. All products have been certified according to international standards including TUV, UL and RCM.

High Power Output

B-Box has the highest output power in industry, which brings the highest performance to customers. The system is able to reach C rate at max 1C and 2C at peak to support critical loads such as A/C and pumps, etc.

Easy Installation and Uninterruptible Maintenance

All B-Box systems have modular design featuring uninterruptible maintenance, and easy installation.

Flexible Extension Life Time

B-Box is equipped with modular design and smart BMS (Battery Management System), allowing extension throughout its lifetime.

Natural Cooling

B-Box is designed with natural cooling providing optimum efficiency.

10 Years Warranty

10 Years Warranty provides the best guarantee of operation.

BYD B-Box BATTERY STORAGE

B-Box LV Residential



Model	B-Box Res 2.5	B-Box Res 5.0	B-Box Res 7.5	B-Box Res 10.0
Battery Type	LiFePO ₄			
Battery Module	B-Plus 2.5 (2.56 kWh)			
	1 module	2 modules	3 modules	4 modules
Usable Energy ^[1] [kWh]	2.56	5.12	7.68	10.24
Max Output Power ^[2] [kW]	2.56	5.12	5.12	5.12
Peak Output Power ^[2] [kW]	5.12, 30s	5.12, 30s	15.36, 5s	20.48, 2s
Max Output Power ^[3] [kW]	2.56	5.12	7.68	10.24
Peak Output Power ^[3] [kW]	5.12, 30s	10.24, 30s	15.36, 30s	20.48, 30s
Round-Trip Efficiency	≥95.3% (Under test condition [1])			
Nominal Voltage[V]	51.2			
Operating Voltage Range [V]	43.2~56.4			
Communication	CAN / RS485			
Dimension [W × H × D, mm]	620×1650×335			
Net Weight [kg]	103	137	171	205
Enclosure Protection Rating	IP55			
Warranty	10 years			
Ambient Temperature Range ^[4] [°C]	-10 ~ +50			
Certification & Safety Standard	TUV / CE / RCM / UN38.3			
Scalability	Max. 8 B-Box Res 10.0 systems in parallel			
Compatible Inverters	SMA / GOODWE / SOLAX / Victron, more brands to be announced			

[1] Test conditions: 100% DOD, 0.5C charge & discharge @+25°C

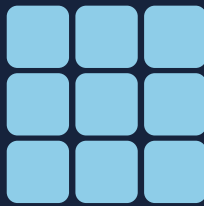
[2] Max current of main circuit breaker

[3] Bypass main circuit breaker and use a separate circuit breaker

[4] -10°C~10°C will be derating

*System Usable Energy may be variant with different inverter brands

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