



**B**uild

**Y**our

**D**reams

**NEW**

**ENERGY**



## Safe Battery Chemistry

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B-Box is designed with  $\text{LiFePO}_4$  chemistry battery which has been widely recognized as one of the safest battery technologies.  $\text{LiFePO}_4$  chemistry features stable structures and its thermal runaway temperature is over  $480^\circ\text{C}$ . 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

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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

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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

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

## Flexible Extension Life Time

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

## Natural Cooling

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

## 10 Years Warranty

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10 Years Warranty provides the best guarantee of operation.

# BYD B-Box BATTERY STORAGE

B-Box HV



Model	B-Box H 6.4	B-Box H 7.7	B-Box H 9.0	B-Box H 10.2	B-Box H 11.5
Battery Type	LiFePO <sub>4</sub>				
Battery Module	B-Plus-H (1.28 kWh)				
	5 modules	6 modules	7 modules	8 modules	9 modules
Usable Energy <sup>[1]</sup> [kWh]	6.40	7.68	8.96	10.24	11.52
Max Output Power [kW]	6.40	7.68	8.96	10.24	11.52
Peak Output Power [kW]	12.8, 5mins	15.36, 5mins	17.92, 5mins	20.48, 5mins	23.04, 5mins
Round-Trip Efficiency	≥ 95.3% (Under test condition [1] )				
Nominal Voltage [V]	256	307	358	409	460
Operating Voltage Range [V]	200~282	240~338	280~395	320~451	360~500
Communication	CAN / RS485				
Dimension [W × H × D, mm]	580 × 894 × 380	580 × 1014 × 380	580 × 1134 × 380	580 × 1254 × 380	580 × 1374 × 380
Net Weight [kg]	148	174	200	226	252
Enclosure Protection Rating	IP55				
Warranty	10 years				
Ambient Temperature Range <sup>[2]</sup> [°C]	-10 ~ +50				
Certification & Safety Standard	CE / UL1642 / RCM / Sicherheitsleitfaden Li-Ionen-Hausspeicher				
Scalability	Max. 5 systems in parallel (Available for Q1, 2018)				
Compatible Inverters	SMA / KOSTAL, more brands to be announced				

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

[2] -10 °C ~ 10 °C will be derating

\*System Usable Energy may be variant with different inverter brands.

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# BYD B-Box BATTERY STORAGE

## B-Box LV Professional



B-Box Pro 2.5~10.0



B-Box Pro 13.8

Model	B-Box Pro 2.5	B-Box Pro 5.0	B-Box Pro 7.5	B-Box Pro 10.0	B-Box Pro 13.8
Battery Type	LiFePO <sub>4</sub>				
Battery Module	1 module	B-Plus 2.5 (2.56 kWh) 2 modules		3 modules	4 modules
Usable Energy <sup>[1]</sup> [kWh]	2.56	5.12	7.68	10.24	B-Plus 13.8 (13.8 kWh)
Max Output Power [kW]	2.56	5.12	7.68	10.24	12.8
Peak Output Power [kW]	5.12, 30s	10.24, 30s	15.36, 30s	20.48, 30s	13.3, 60s
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]	600×883×510				650×800×550
Net Weight [kg]	79	113	147	181	175
Enclosure Protection Rating	IP20				
Warranty	10 years				
Ambient Temperature Range <sup>[2]</sup> [°C]	-10 ~ +50				
Certification & Safety Standard	TUV / CE / UN38.3 Sicherheitsleitfaden Li-Ionen-Hausspeicher				CE / RCM / UN38.3
Scalability	Max. 8 B-Box Pro 10.0 systems in parallel				Max. 32 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] -10°C~10°C will be derating

\*System Usable Energy may be variant with different inverter brands

# 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 <sub>4</sub>			
Battery Module	B-Plus 2.5 (2.56 kWh)			
	1 module	2 modules	3 modules	4 modules
Usable Energy <sup>[1]</sup> [kWh]	2.56	5.12	7.68	10.24
Max Output Power <sup>[2]</sup> [kW]	2.56	5.12	5.12	5.12
Peak Output Power <sup>[2]</sup> [kW]	5.12, 30s	5.12, 30s	15.36, 5s	20.48, 2s
Max Output Power <sup>[3]</sup> [kW]	2.56	5.12	7.68	10.24
Peak Output Power <sup>[3]</sup> [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 <sup>[4]</sup> [°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

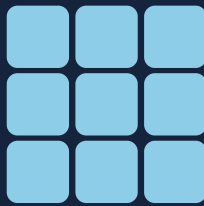
[2] Max current of main circuit breaker

[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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