

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 ₄				
Battery Module	B-Plus-H (1.28 kWh)				
	5 modules	6 modules	7 modules	8 modules	9 modules
Usable Energy ^[1] [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 ^[2] [°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

Build Your Dreams



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 CE.

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.