



BYD BATTERY-BOX

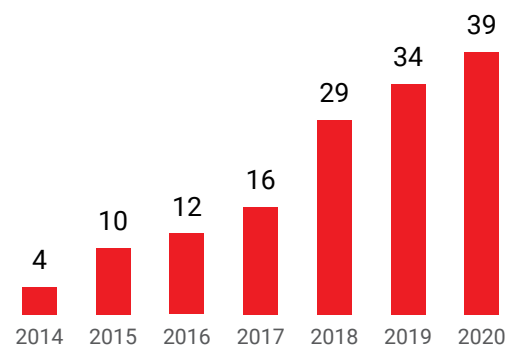
THE BATTERY FOR ALL APPLICATIONS





ABOUT BYD

BYD Company Ltd. is a leading high-tech multinational company based in Shenzhen, China. Since its establishment in 1995, BYD has developed solid expertise in rechargeable batteries, becoming a relentless advocate of sustainable development. BYD has successfully expanded its renewable energy solutions globally with operations in over 50 countries and regions. After 23 years' development, BYD has created a Zero Emissions Energy Ecosystem – affordable solar power generation, reliable energy storage, cutting-edge electrified transportation and a state of the art monorail has made it an industry leader in the energy and transportation sector. BYD is listed on the Hong Kong and Shenzhen Stock Exchange.



Battery production capacity, unit: GWh



BYD is the world's biggest manufacturer of electric vehicles. From electric forklifts to double decker busses in London or the new Skyrail - BYD electrifies all means of transportation to establish an emission free ecosystem.



ADVANTAGES

With its innovation and reliability, BYD and the Battery-Box gain a lot of recognition. Examples are the EUPD seal for top Brand for Storage or the innovation Award of PV Magazine for the Battery-Box HV.



Automotive Standard Battery

As the world's largest Electric Vehicle manufacturer, BYD brings the highest safety and performance standards to residential and commercial battery solutions.



Modular design

All Battery-Box systems feature a modular design to provide maximum flexibility.



Reliable for a longer life

Extensive life testing and road track record show the highest levels of reliability and long life.



High Performance

Award winning performance and efficiency levels.



10 Years Warranty

BYD provides 10 years performance warranty*.



Safety certification guarantee

All products have been certified according to international standards including TUV, UL and CE and RCM.

*Conditions apply. Refer to BYD Battery-Box Warranty Letter



PRODUCTS

The BYD Battery-Box is a lithium battery unit with battery management system (BMS) for usage with an external inverter. The flexible battery systems in the three versions: Battery-Box HV, Battery-Box Res and Battery-Box Pro provide maximum safety, lifetime and performance, which makes them the perfect batteries for all applications.



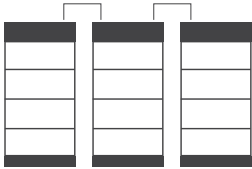
Battery-Box HV



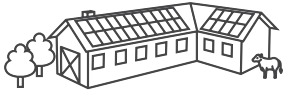
Battery-Box Res



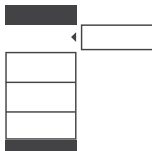
Battery-Box Pro



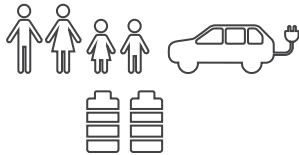
Wide Coverage



Always the perfect battery: Individual configuration for any application.



Flexible Extension



Thanks to its modular design the B-Box can grow with its requirements at any time.



High Power



Enough power for all applications and situations like backup or grid-services

Battery-Box HV

The Battery-Box HV is the first real high voltage battery that comes with a flexible and modular design with no cables inside. One Battery-Box HV contains 5 to 9 battery modules B-Plus H 1.28 in series connection and reaches up to 11.52 kWh usable capacity.

The parallel connection of up to 5 identical Battery-Box HV allows a maximum capacity of 57.6 kWh (coming soon).



	Battery-Box H 6.4	Battery-Box H 7.7	Battery-Box H 9.0	Battery-Box H 10.2	Battery-Box H 11.5
Battery module	B-Plus H 1.28 (1.28kWh, 25 kg)				
	5 modules	6 modules	7 modules	8 modules	9 modules
Usable Energy ^[1]	6.40 kWh	7.68 kWh	8.96 kWh	10.24 kWh	11.52 kWh
Max Output Power	6.40 kW	7.68 kW	8.96 kW	10.24 kW	11.52 kW
Peak Output Power	12.80 kW, 30 s	15.36 kW, 30 s	17.92 kW, 30 s	20.48 kW, 30 s	23.04 kW, 30 s
Round-Trip Efficiency	≥95.3 % [1]				
Nominal Voltage	256 V	307 V	358 V	409 V	460 V
Operating Voltage Range	200~282 V	240~338 V	280~395 V	320~451 V	360~500 V
Communication	CAN / RS485				
Dimensions (W/H/D)	580 x 894 x 380 mm	580 x 1014 x 380 mm	580 x 1134 x 380 mm	580 x 1254 x 380 mm	580 x 1374 x 380 mm
Net Weight	148 kg	174 kg	200 kg	226 kg	252 kg
Enclosure Protection Rating	IP55				
Warranty ^[2]	10 years				
Operating temperature ^[3]	-10 °C to +50°C				
Certification & Safety Standard	UL1642 / TUV(IEC62619) / CE / RCM / UN38.3 / Sicherheitsleitfaden Li-Ionen-Hausspeicher				
Scalability	Max. 5 systems in parallel (Available for Q1, 2019)				
Compatible Inverters ^[4]	SMA (5-8 modules) / Kostal / Fronius (coming soon) and more brands to be announced				
Application	ON Grid (Self consumption / On Grid + Backup / Backup)				

[1] Test conditions: 100% DOD, 0.2C charge & discharge at +25 °C. System Usable Energy may be variant with different inverter brands

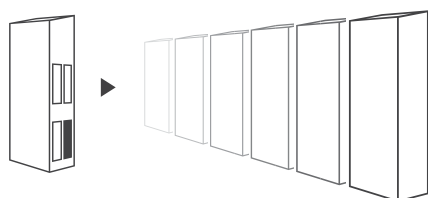
[2] Conditions apply. Refer to BYD Battery-Box Warranty Letter.

[3] -10 °C to +12 °C will be derating

[4] Detailed information refer to BYD Battery-Box Inverter Compatible List

Battery-Box Res

Battery-Box Res 2.5-10.0 has an enclosure protection rating of IP55 and consists of the battery module B-Plus L 2.5 with 2.56 kWh usable capacity each. Up to 4 B-Plus L 2.5 modules can fit into one cabinet, and up to 8 cabinets can be put into parallel connection. Thus capacities from 2.56 to 81.92 kWh can be chosen individually in 2.56 kWh steps.



	Battery-Box Res 2.5	Battery-Box Res 5.0	Battery-Box Res 7.5	Battery-Box Res 10.0
	B-Plus L 2.5 (2.56kWh, 39 kg)			
Battery module	1 module	2 modules	3 modules	4 modules
Usable Energy ^[1]	2.56 kWh	5.12 kWh	7.68 kWh	10.24 kWh
Max Output Power ^[2]	2.56 kW	5.12 kW	5.12 kW	5.12 kW
Peak Output Power ^[2]	5.12 kW, 30 s	10.24 kW, 10 s	15.36 kW, 5 s	20.48 kW, 2 s
Max Output Power ^[3]	2.56 kW	5.12 kW	7.68 kW	10.24 kW
Peak Output Power ^[3]	5.12 kW, 30 s	10.24 kW, 30 s	15.36 kW, 30 s	20.48 kW, 30 s
Round-Trip Efficiency	≥95.3 % [1]			
Nominal Voltage	51.2 V			
Operating Voltage Range	43.2~56.4 V			
Interfaces	CAN / RS485			
Dimensions (W/H/D)	600 x 1650 x 335 mm			
Net Weight	104 kg	143 kg	182 kg	221 kg
Enclosure Protection Rating	IP55			
Warranty ^[4]	10 years			
Operating temperature ^[5]	-10 °C to +50°C			
Certification & Safety Standard	TUV (IEC62619) / CE / RCM / UN38.3			
Scalability	Max. 32 B-Plus 2.5 in parallel / 81.92 kWh			
Compatible Inverters ^[6]	SMA / GOODWE / Victron / Sungrow / Selectronic / Solis , more to be announced			
Application	ON Grid (Self consumption / ON Grid + Backup / Backup) and Off Grid			

[1] Test conditions: 100% DOD, 0.2C charge & discharge @+25 °C. System Usable Energy may be variant with different inverter brands

[2] Max current capability of main circuit breaker.

[3] Bypass the main circuit breaker and use a separate circuit breaker with higher current capability in off-grid application

[4] Conditions apply. Refer to BYD Battery-Box Warranty Letter.

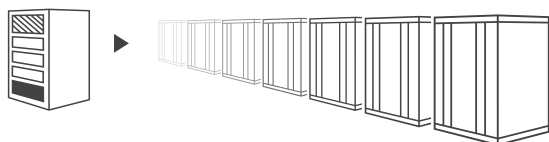
[5] -10 °C to +12°C will be derating

[6] Detailed information refer to BYD Battery-Box Compatible Inverter List

Battery-Box Pro

Battery-Box Pro 2.5-10.0 consists of the battery modules B-Plus L 2.5 with 2.56 kWh usable capacity each. Up to 4 B-Plus L 2.5 modules can fit into one cabinet, and up to 8 cabinets can be put into parallel connection. Thus capacities from 2.56 to 81.92 kWh can be chosen individually in 2.56 kWh steps.

Battery-Box Pro 13.8 has a usable capacity of 13.8 kWh per battery rack. Up to 32 Battery-Box Pro 13.8 can be connected in parallel. Thus, the capacity can be chosen individually in 13.8 kWh steps from 13.8 to 441.6 kWh.



Battery-Box Pro 2.5-10.0



Battery-Box Pro 13.8



	Battery-Box Pro 2.5	Battery-Box Pro 5.0	Battery-Box Pro 7.5	Battery-Box Pro 10.0	Battery-Box Pro 13.8
Battery module	B-Plus L 2.5 (2.56 kWh, 39 kg)				2 modules
	1 module	2 modules	3 modules	4 modules	
Usable Energy ^[1]	2.56 kWh	5.12 kWh	7.68 kWh	10.24 kWh	13.8 kWh
Max Output Power	2.56 kW	5.12 kW	7.68 kW	10.24 kW	12.8 kW ^[2]
Peak Output Power	5.12 kW, 30 s	10.24 kW, 30 s	15.36 kW, 30 s	20.48 kW, 30 s	13.3 kW, 60 s
Round-Trip Efficiency	≥95.3 % [1]				≥95.5 % [1]
Nominal Voltage	51.2 V				51.2 V
Operating Voltage Range	43.2~56.4 V				43.2~56.4 V
Communication	CAN / RS485				CAN / RS485
Dimensions (W/H/D)	600 x 883 x 510 mm				650 x 800 x 550 mm
Net Weight	86 kg	125 kg	164 kg	203 kg	181 kg
Enclosure Protection Rating	IP20				IP20
Warranty ^[3]	10 years				10 years
Operating temperature ^[4]	-10 °C to +50 °C				-10 °C to +50 °C
Certification & Safety Standard	TUV (IEC62619) / CE / RCM / UN38.3				TUV/ CE/ RCM/UN38.3
Scalability	Max. 32 B-Plus L 2.5 in parallel / 81.92 kWh				Max. 32 systems in parallel / 441.6 kWh
Compatible Inverters ^[5]	SMA / GOODWE / Victron / Sungrow / Selectronic / Solis, more brands to be announced				
Application	ON Grid (Self consumption / ON Grid + Backup / Backup) and Off Grid				

[1] Test conditions: 100% DOD, 0.2C charge & discharge @+25 °C. System Usable Energy may be variant with different inverter brands

[2] Max output power will be derating(8.96~10.2KW) when systems in parallel connection

[3] Conditions apply.Refer to BYD Battery-Box Warranty Letter.

[4] -10 °C to +12 °C will be derating

[5] Detailed information refer to BYD Battery-Box Compatible Inverter List

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