



BYD BATTERY-BOX

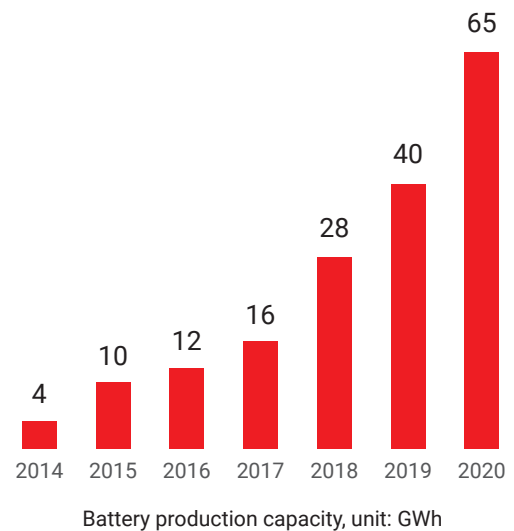
THE BATTERY FOR ALL APPLICATIONS





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 24 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.



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 and easy installation.



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.



PRODUCTS

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



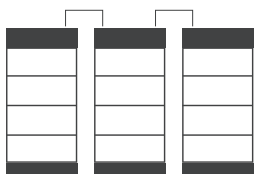
Battery-Box HV



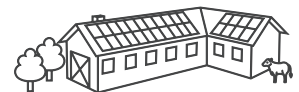
Battery-Box LV



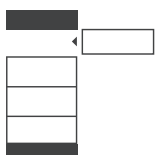
Battery-Box Pro



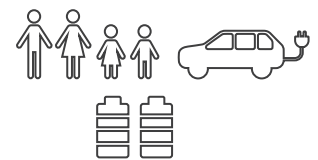
Wide Coverage



Always the perfect battery: Individual configuration for any application.



Flexible Extension



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



High Power



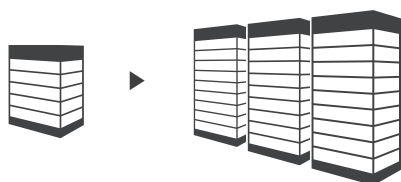
Enough power for all applications and situations like backup or grid-services.



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 4 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 3 identical Battery-Box HV allows a maximum capacity of 34.5 kWh (coming soon).



	Battery-Box H 5.1	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, 26 kg)					
	4 modules	5 modules	6 modules	7 modules	8 modules	9 modules
Usable Energy [1]	5.12 kWh	6.40 kWh	7.68 kWh	8.96 kWh	10.24 kWh	11.52 kWh
Max Output Power	5.12 kW	6.40 kW	7.68 kW	8.96 kW	10.24 kW	11.52 kW
Peak Output Power	10.24 kW, 30 s	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	204 V	256 V	307 V	358 V	409 V	460 V
Operating Voltage Range	160~225 V	200~282 V	240~338 V	280~395 V	320~451 V	360~500 V
Communication	RS485 / CAN					
Dimensions (W/H/D)	580 x 774 x 380 mm	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
Weight	125 kg	151 kg	177 kg	203 kg	229 kg	255 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	To be announced					
Compatible Inverters [4]	SMA (4-8 modules) / Kostal / Fronius (5-9 modules) / GoodWe / Ingeteam (4-5 modules)					
Application [4]	ON Grid / ON Grid + 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 and updated information refer to BYD Battery-Box Minimum Configuration List. More brands to be announced.



Battery-Box LV

The Battery-Box LV is a 48V battery with a flexible and modular design with no cables inside. One Battery-Box LV contains up to 4 battery modules B-Plus L 3.5 in parallel connection and achieves capacities between 3.5 and 14.0 kWh (usable).

By connecting up to 3 Battery-Box LV in parallel, the capacity can be chosen individually in 3.5 kWh steps from 3.5 kWh to a maximum of 42.0 kWh.



	Battery-Box L 3.5	Battery-Box L 7.0	Battery-Box L 10.5	Battery-Box L 14.0
Battery module	B-Plus L 3.5 (3.5 kWh, 42 kg)			
	1 module	2 modules	3 modules	4 modules
Usable Energy [1]	3.5 kWh	7.0 kWh	10.5 kWh	14.0 kWh
Max Output Power	3.0 kW	6.0 kW	9.0 kW	10.0 kW
Peak Output Power	5.0 kW, 10 s	10.0 kW, 10 s	15.0 kW, 10 s	15.0 kW, 10 s
Round-Trip Efficiency	≥95 % [1]			
Nominal Voltage	51.2 V			
Operating Voltage Range	40~59.2 V			
Communication	RS485 / CAN			
Dimensions (W/H/D)	620 x 497 x 355 mm	620 x 733 x 355 mm	620 x 968 x 355 mm	620 x 1205 x 355 mm
Weight	65 kg	107 kg	149 kg	191 kg
Enclosure Protection Rating	IP55			
Warranty [2]	10 years			
Operating temperature [3]	-10 °C to +50°C			
Certification & Safety Standard	UN 38.3 / TUV(IEC62619) / CE / RCM / Sicherheitsleitfaden Li-Ionen-Hausspeicher			
Scalability	Max. 3 systems in parallel / 42 kWh			
Compatible Inverters [4]	SMA / GoodWe / Victron / Sungrow / Selectronic / Solis			
Application [4]	ON Grid / ON Grid + Backup / OFF Grid (with Selectronic 1 phase)			

[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

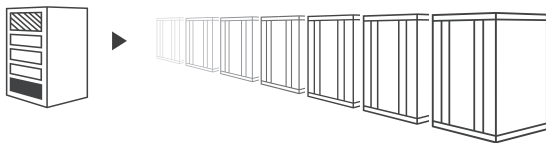
[4] Detailed information refer to BYD Battery-Box Minimum Configuration List. More brands to be announced.



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	1 module	B-Plus L 2.5 (2.56 kWh, 40 kg)			B-Plus 13.8
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	RS485 / CAN				RS485 / CAN
Dimensions (W/H/D)	600 x 883 x 510 mm				650 x 800 x 550 mm
Weight	86 kg	126 kg	166 kg	206 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 / UN38.3 / Sicherheitsleitfaden Li-Ionen-Hausspeicher				TUV / CE / UN38.3
Scalability	Max. 32 B-Plus 2.5 in parallel / 81.92 kWh				Max. 32 systems in parallel / 441.6 kWh
Compatible Inverters [5]	SMA / GoodWe / Victron / Sungrow / Selectronic / Solis / Imeon				
Application [5]	ON Grid / ON Grid + Backup / 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 Minimum Configuration List. More brands to be announced.

BYD COMPANY LIMITED

Address: No.3009, BYD Road, Pingshan, Shenzhen, 518118, P.R.China

Global Contact

Email: batteryboxgrp@byd.com

Web: www.byd.com/energy

Tel: +86-89888888-63371/61579

[Facebook.com/bydcompany](https://www.facebook.com/bydcompany)

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