



# BYD BATTERY-BOX

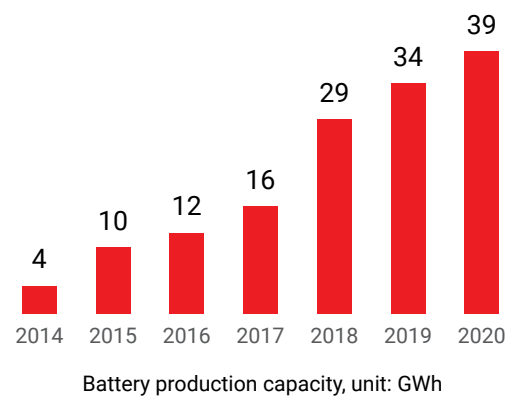
THE BATTERY FOR ALL APPLICATIONS





## 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.



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.



# 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.



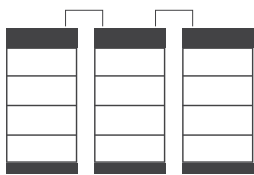
Battery-Box HV



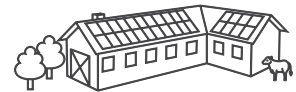
Battery-Box LV



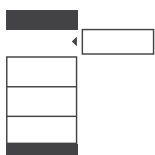
Battery-Box Pro



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 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.



	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
	B-Plus H 1.28 (1.28kWh)				
Battery module	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, 5 mins	15.36 kW, 5 mins	17.92 kW, 5 mins	20.48 kW, 5 mins	23.04 kW, 5 mins
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	RS485 / CAN				
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
Weight	148 kg	174 kg	200 kg	226 kg	252 kg
Enclosure Protection Rating	IP55				
Warranty	10 years				
Operating temperature [2]	-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	SMA (5-8 modules) / Kostal / Fronius (coming soon) and more brands to be announced				
Application	ON Grid / ON Grid + Backup (Refer to BYD Minimum Configuration List)				

[1] Test conditions: 100% DOD, 0.2C charge & discharge at + 25 °C

[2] -10 °C to 10 °C will be derating

# 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
	B-Plus L 3.5 (3.5 kWh)			
Battery module	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	≥95.3 % [1]			
Nominal Voltage	51.2 V			
Operating Voltage Range	40~59.2 V			
Communication	RS485 / CAN			
Dimensions (W/H/D)	620 x 475 x 320 mm	620 x 711 x 320 mm	620 x 947 x 320 mm	620 x 1183 x 320 mm
Weight	65 kg	108 kg	151 kg	194 kg
Enclosure Protection Rating	IP55			
Warranty	10 years			
Operating temperature [2]	-10 °C to +50°C			
Certification & Safety Standard	UN 38.3/ UL1642, is currently being certified: TUV(IEC62619) / CE / RCM / VDE2510 / Sicherheitsleitfaden			
Scalability	Max. 3 systems in parallel / 42 kWh			
Compatible Inverters	SMA / GOODWE / Victron / Sungrow / Selectronic, more brands to be announced			
Application	ON Grid / ON Grid + Backup (Refer to BYD Minimum Configuration List)			

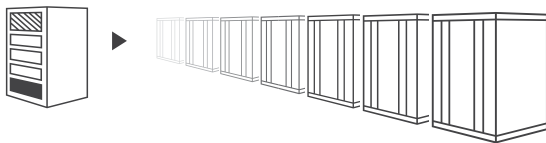
[1] Test conditions: 100% DOD, 0.2C charge & discharge at + 25 °C

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# 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)			GBSSB
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
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]				≥95.3 % [1]
Nominal Voltage	51.2 V				51.2 V
Operating Voltage Range	43.2~56.4 V				40~59.2 V
Communication	RS485 / CAN				RS485 / CAN
Dimensions (W/H/D)	600 x 883 x 510 mm				650 x 800 x 550 mm
Weight	79 kg	113 kg	146 kg	180 kg	181 kg
Enclosure Protection Rating	IP20				IP20
Warranty	10 years				10 years
Operating temperature [2]	-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	SMA / GOODWE / SOLAX / Victron / Sungrow / Selectronic, more brands to be announced				
Application	ON Grid / ON Grid + Backup / OFF Grid (Refer to BYD Minimum Configuration List)				

[1] Test conditions: 100% DOD, 0.2C charge & discharge at + 25 °C

[2] -10 °C to 10 °C will be derating

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