



BYD BATTERY-BOX

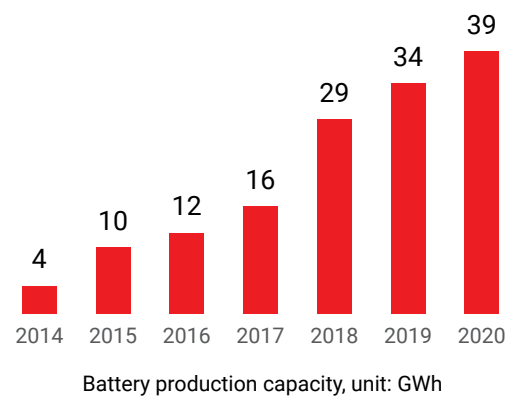
THE BATTERY FOR ALL APPLICATIONS





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.



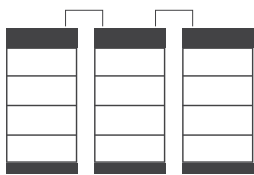
Battery-Box HV



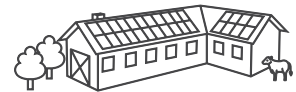
Battery-Box LV



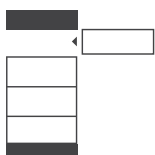
Battery-Box Pro



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) | | | | |

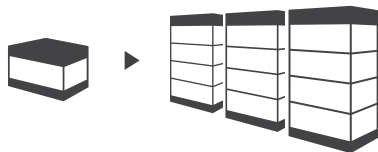
[1] Test conditions: 100% DOD, 0.2C charge & discharge at + 25 °C

[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 947x 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) | | | |

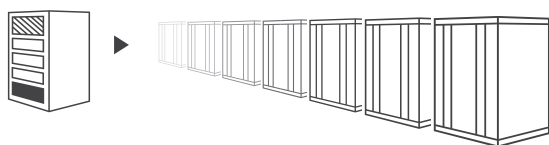
[1] Test conditions: 100% DOD, 0.2C charge & discharge at + 25 °C

[2] -10 °C to 10 °C will be derating

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) | | | | GBSSB |
| | 1 module | 2 modules | 3 modules | 4 modules | 2 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 |
| 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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