



THE BATTERY

BYD BATTERY STORAGE



THE BATTERY.



www.bydbatterybox.com

Auto Standard Battery



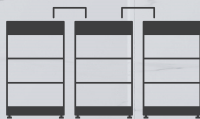
Modularized



Multiple Choices Inverters



9 years
1,000,000 Systems+



Internal Plug Connection
No Additional Wiring Required

15.4 - 983 kWh
Tailored Sizing for Each
Application

Extend Anytime
Easily Adapts to New
Requirements



BYD CORPORATE

BYD Co., Ltd. was established in February 1995 and is headquartered in Shenzhen, Guangdong Province. It has more than 570,000 employees and its business spans four major industries: Auto, Rail Transit, New Energy and Electronics. Listed in both Hong Kong and Shenzhen. BYD shoulders a high sense of social responsibility and a sense of mission to build a green transportation system of "electric vehicles to control pollution and rail transit to control urban traffic congestion" to help achieve the goal of "peak carbon and carbon neutrality". By the end of 2021, BYD has applied for more than 40,000 patents, of which more than 28,000 have been approved globally.

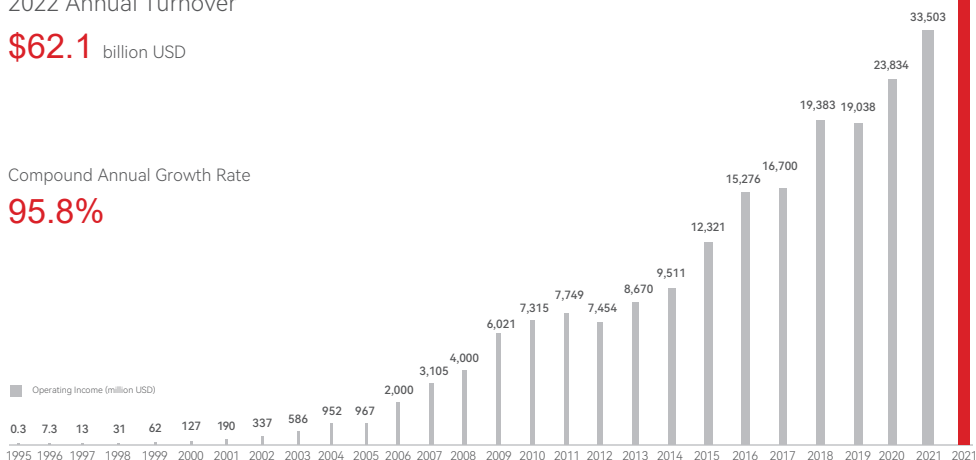
Group Revenue

2022 Annual Turnover

\$62.1 billion USD

Compound Annual Growth Rate

95.8%



Technologically Based, Innovation Oriented



69,697

R&D Personnel



11

Research Institutes



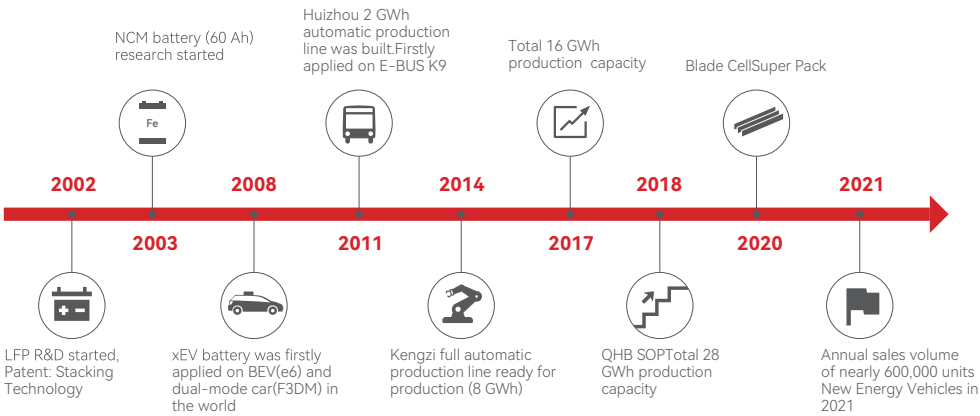
40,000

Patent Applications

THE BATTERY

BYD is recognized as the global leading manufacturer of Lithium- Ion batteries. With over 25 years of experience, BYD battery has developed a completely integrated supply chain from mineral resources through to recycling. Our cell production capacity has reached 250 GWh. BYD cells are widely used in EV's, Rail Transit and Energy Storage Solutions. We aim to help contribute to the goal of cooling the earth by one degree.

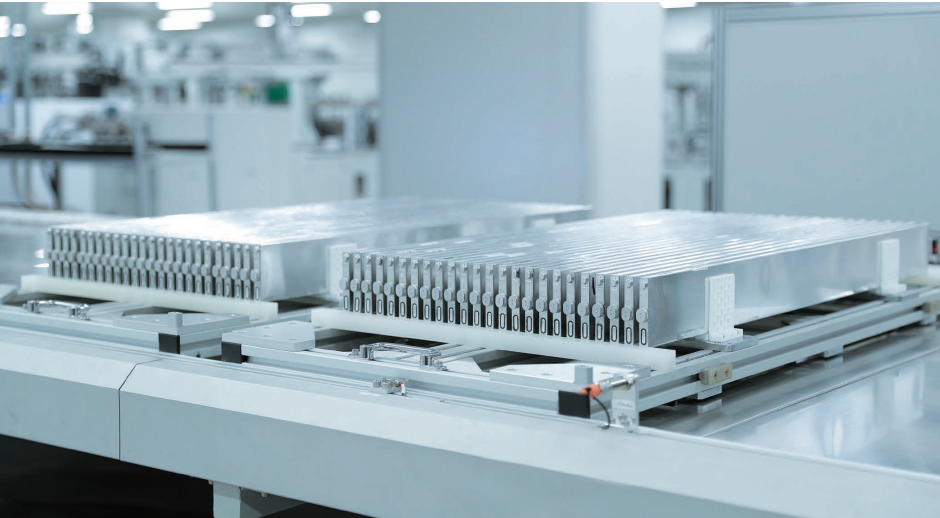
BYD Battery Milestone



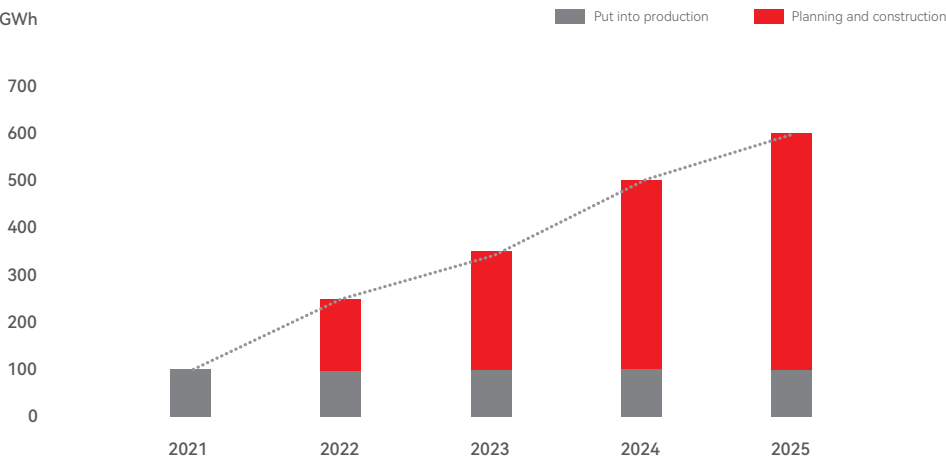
BYD Full Supply Chain



Blade Battery



BYD Battery Production Capacity



ABOUT BYD BATTERY STORAGE



As the trend emerges around the globe that carbon neutral and energy efficiency are set as common goals, energy storage is playing an important role in this transition.

As a leading battery solution provider, BYD endeavours to provide a safe innovative and reliable battery system. With 7 years of experience and a tracking record of over 250,000 installations, BYD BatteryBox storage systems are the perfect solution for both residential and commercial storage. The BYD BatteryBox family serves all types of residential and commercial projects: single and three phase and both on-grid and off-grid.

Recognized as one of the most appreciated and popular residential storage systems by German installers, the BYD BatteryBox family is now on its 3rd Generation and continuously ranked as the top of efficiency tests held by the third party. The patented modular design creates a new standard for the industry and brings flexibility to every installation.

Through all these, safety is the most important factor, as our products utilize self-developed, patented, and manufactured LFP battery cells. For all applications, safety has been guaranteed, as BYD Battery Storage systems utilize a more stable and cobalt - free LFP cell chemistry.

ABOUT BYD BATTERY STORAGE

BYD BatteryBox Milestone

● 2015

BYD "Ice and Fire" Premiere unveiled Battery-Box Pro, the 1st residential storage generation in Munich, Germany.



● 2016

BatteryBox Pro sparkles at Intersolar in Munich, Germany.



● 2017

Patenting the world's first modularized storage battery, the debut of BatteryBox HV progressed the industry.



● 2018

BYD BatteryBox hits the market with BatteryBox LV series in Stuttgart, Germany and Sydney, Australia.



● 2019

BYD BatteryBox Commercial was revealed at the Intersolar Expo in Munich, Germany.



● 2020

BYD BatteryBox Premium made its international debut as the 3rd generation of BYD BatteryBox to the globe.



Global Footprint



CONTACT US

BYD Company Limited

www.bydbatterybox.com

Global Sales: batteryboxgrp@byd.com

Global Service: bboxservice@byd.com

Global marketing: bboxmarketing@byd.com

BYD BATTERYBOX



KEY FEATURE



1 High Safety

- LFP cells: safest Li-ion battery chemistry (cobalt-free)
- 4 Level safety protection system design
- Rigorous testing, strict quality control
- Global strict standards: VDE 2510-50 / IEC62619 / IEC62040 / CE / CEC / UL1973

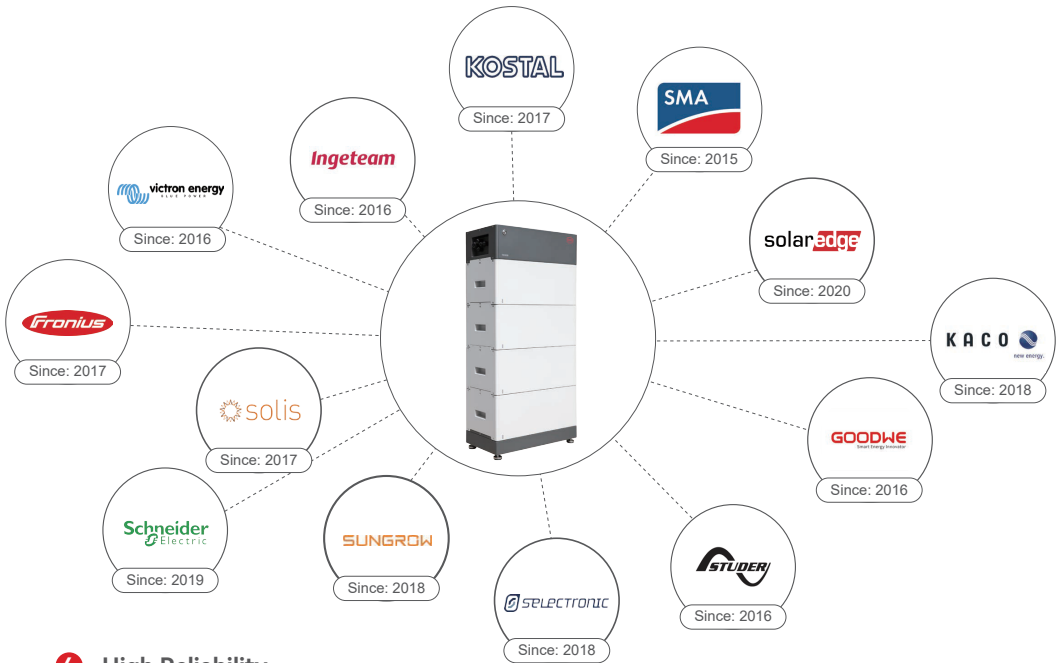
2 High Flexibility

- First patented innovative modular design worldwide
- Easiest installation, internal plug-and-play connection
- Flexibility to be configured for any application
- Expand at anytime, grow with your family



3 High Usability

- Compatible with selected world class inverters, giving a variety of options
- Rigorous compatibility tests
- A wide range of applications covering on-grid, off-grid, backup, 1&3 phase



4 High Reliability

- The most popular residential energy storage brand: 250,000 successful installations
- Global footprint of more than 90 countries
- Time tested: 9 years of tracking record with quality and service assurance
- Ownership of recycling responsibility

BATTERYBOX PREMIUM HV

BatteryBox Permium is the 3rd Generation BatteryBox, with Patented Plug-in Modular Design and Be Connect APP for Easier System Commissioning.
Premium HV includes: HVS / HVM



- High-Powered Emergency Backup Supply
- Highest Efficiency Thanks to a Real High-Voltage Series Connection
- Modular Design Brings Easy installation and High Usability for Different Demands
- Cobalt-Free Lithium Iron Phosphate Battery: High Safety & High Reliability
- Highest Safety Standard: VDE2510-50

	HVS	HVM
Battery Module Usable Energy	2.56 kWh	2.76 kWh
Battery Module Voltage	102.4 V	51.2 V
Battery Module Weight	38 kg	38 kg
Numbers of Modules	2~5	3~8
Usable Energy/ Tower	5.12~12.8 kWh	8.28~22.08 kWh
Voltage Range	160~600 V	120~472 V
Max Output Current	25 A	50 A
Peak Output Current	50 A, 3s	75 A, 3s
Dimensions (H/W/D)	762~1461/585*298 mm	995~2160/585*298 mm
Max Energy For Parallel Connection	38.4 kWh	66.24 kwh
Weight	91~205 kg	129~319 kg
Enclosure Protection Rating	IP55	
Certifications	VDE 2510-50 / IEC62619 / IEC62040 / CE / CEC / UN38.3	
Applications	ON Grid / ON Grid + Backup / OFF Grid	
Sales Region	Most of the world	

BATTERYBOX PREMIUM LV

BatteryBox Permium is the 3rd Generation of BatteryBox Family, with Patented Plug-in Modular Design and Be Connect APP for Easier System Commissioning
Premium LV Includes: LVS /LVL.

- High Flexibility for On / Off-grid, 1 / 3 Phase, Residential & Light Commercial Application
- High Usability, Ability to Parallel Up to 64 Battery Modules to achieve 256 kWh (LVS) /983 Wh (LVL)
- Cobalt-Free Lithium Iron Phosphate Battery:
High Safety & Reliability



	LVS	LVL
Battery Module Usable Energy	4 kWh	/
Battery Module Voltage	51.2 V	/
Battery Module Weight	45 kg	/
Numbers of Modules	1~6	/
Usable Energy/ Tower	4~24 kWh	15.36 kWh
Nominal Voltage	51.2 V	
Max Output Current	65~250A	250A
Peak Output Current	90A~360A,5s	375 A,5s
Dimensions(H/W/D)	528~1693/650*298mm	500*650*575mm
Max Energy For Parallel Connection	256 kWh	983 kWh
Weight	64~289 kg	164 kg
Enclosure Protection Rating	IP55	IP20
Certifications	VDE 2510-50(LVS)/ IEC62619 / IEC62040 / CE / CEC / UN38.3	
Applications	ON Grid / ON Grid + Backup / OFF Grid	
Sales Region	Most of the world	

BATTERYBOX LV FLEX

LV FLEX / FLEX LITE is a 3U Format Battery for Bespoke Projects and Integrated Systems

- High Flexibility for On / Off-grid, 1 or 3 Phase, Residential & Light Commercial Applications
- Up to 64 Battery Modules in Parallel Connection from 5 kWh to 320 kWh
- Cobalt-Free Lithium Iron Phosphate Battery
High Safety & Reliability



	Flex	Flex Lite
Battery Module Energy	5 kWh	
Battery Module Voltage	51.2 V	
Battery Module Weight	47 kg	
Max Output Current	70 A	
Peak Output Current	105 A, 5s	
Dimensions(H/W/D)	132*482*525 mm	
Max Capacity For Parallel Connection	320 kWh, 64pcs in parallll connection	
Enclosure Protection Rating	IP20	
Certifications	IEC62619 / IEC62040 / CE / CEC /UN38.3	
Applications	ON Grid / ON Grid + Backup / OFF Grid	
Sales Region	ANZ	SEA, MEA

SHOWCASE



LOCAL TECHNICAL SUPPORT



Europe

BatteryBox EU Service Partner
EFT-Systems GmbH
www.eft-systems.de
service@eft-systems.de
+49 9352 8523999(DE)
+44 2037 695998(UK)
+39 0287 368364(IT)
+34 9106 02267(ES)



United States

BatteryBox US Service
bboxuservice@byd.com



Australia

BatteryBox AU Service Partner
Alps Power Pty Ltd
www.alpspower.com.au
service@alpspower.com.au
+61 028005 6688



South Africa

BatteryBox South Africa Service Partner
Afriplus Energy Group Pty Ltd
support@afriplusenergy.co.za
+27 83 3755 486

The 6 TIPS FOR BUYING A RESIDENTIAL STORAGE SYSTEM

THE QUESTIONS TO BE ANSWERED BEFORE BUYING A RESIDENTIAL STORAGE SYSTEM.

1

Who is the manufacturer of the battery cells inside my storage system?

The battery cells are the key component of the battery and the real value of the battery system. It is important to choose battery manufacturers with in-house cell technology and production ability, so that it can ensure the fundamental safety, reliable quality and controllable supply on battery systems.

2

Is my storage system with “Cobalt” inside?

Cobalt is a chemical element found in the Earth's crust only in a chemically combined form, save for small deposits found in alloys of natural meteoric iron. As a rare and expensive chemical element of the battery, cobalt can cause unstable supply & price, as well as pollution. It is widely believed by the industry that LFP battery, without Cobalt element, is environmental friendly and suitable for energy storage systems.

3

Is my HVStorage a real High Voltage product? Or with DC-DC converters?

Using DC/DC converters inside batteries to reach high voltage, might lead to the energy efficiency losses, and higher risk of failure. A true high-voltage product can maximize the energy use, with minimum loss from energy conversion. And more essentially, it will not have additional failure risk which is due to the extra conversion components.

A detailed and independent efficiency comparison on different storage systems can be seen in the Storage Inspection analysis by the technical university HTW Berlin.

4

Do I have flexibility on my storage system, is it a bundled choice?

It is important for a battery system to offer flexible options of battery capacity and open choices with various inverters. So you are capable to customize your storage system with the best components available, design your own case and easily upgrade your systems in future. Bundled battery&inverter packages will constrain your project design and extension.

5

Does the battery I am going to buy have reliable track records and rich installation experience?

As the product reliability being the key for the user experience, a brand with years of track records and extensive experience from real installations in various environments and regions can be of essential advantage. BYD BatteryBox has been installed and proved its reliability in over 250,000 installations worldwide, including around 220,000 in Europe. The installations are covering a wide range of installation environments and scenarios from the Arctic Circle to Central Africa.

6

Does a local technical support need to be considered into battery selection?

A reliable local technicians network is fundamental, so that you can enjoy the quick professional response from the manufacturer locally with easy approach. the end of life and the recycling, which ensures environmental safety and sustainability.