

At a glance ...

# BYD – Build Your Dreams

## Product advantages

The **BYD Company Ltd.** is the world's largest manufacturer of rechargeable batteries and leading provider of electric vehicles. The Chinese company from Shenzhen, which was founded in February 1995, has today over 200,000 employees worldwide. Among others, BYD has production sites and sales offices in Europe, America, Japan and India. As the first major corporation BYD ("Build Your Dreams") covers the entire energy chain – from generation over storage to consumption. With the branches solar power generation, energy storage, LED lighting and electrified transport BYD offers an overall solution for managing the energy resources of tomorrow.

The battery cells used in BYD's B-Box are applied in the highly efficient electric vehicles as well as in all the stationary applications. 20 years of experience and the world's largest production capacity ensure that BYD's high and low voltage battery storage systems are qualitative and price attractive alternatives.



**B-Box 2.5 – 10**

**B-Box H6.4 – H11.5**

## Product diversity & compatibility

- B-Box 2.5 – 10 & 13.8  
(low voltage models, 43 – 56 V)
- B-Box H6.4 – H11.5  
(high voltage models, 200 – 500 V)
- Battery unit with integrated battery management system (BMS) for use with an external inverter or charge controller
- Compatibility with many different inverters, e. g. SMA Sunny Island and Sunny Boy Storage, KOSTAL PIKO BA and PLENTICORE plus

## Safety & reliability

- Proven and tested in telecommunications and energy storage applications worldwide
- Eco-friendly, high-performance lithium iron phosphate battery technology (LiFePO) ensures maximum cycle stability
- High temperature resistance
- Various certifications (e. g. TÜV) document highest safety standards
- 10 years warranty for > 80 % of the effective capacity (up to/max. 1 full cycle/day)
- Emergency-backup through high discharge power

## Profitability & efficiency

- Modular design consisting of a battery cabinet and 19" plug-in units facilitates transport and installation (low voltage models)
- Patented wireless plug-in system for the battery modules (high voltage models)
- LiFePO cell chemistry ensures high loading and discharge power (DOD: 95 %)
- No external cooling: silent and highly efficient

## Flexibility & applications

- Scalable capacity thanks to the modular design:
  - Low voltage: 2.56 – 81.92 kWh (B-Box 13.8: 442 kWh)
  - High voltage: 6.4 – 57.5 kWh
- Low voltage: can be extended at any time (B-Plus 2.5), up to 8 cabinets can be operated in parallel (B-Box 13.8 up to 32 systems)
- High voltage: 5 – 9 battery modules B-Plus H (à 1.28 kWh), parallel coupling of up to 5 identical systems, retrofitting is possible at any time
- 1- and 3-phase systems for off-grid applications, self-consumption optimization and commercial applications