

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 220,000 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 Battery-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.



**Battery-Box  
HV**



**Battery-Box  
LV**



**Battery-Box  
Pro 13.8**

## Product diversity & compatibility

- Low-voltage models: Battery-Box LV 3.5 - 14.0 and Battery-Box Pro 13.8
- High-voltage model: Battery-Box HV 6.4 - 11.5
- Battery unit with integrated battery management system (BMS) for use with external inverter or charge controller
- Compatibility with many different inverters, e.g. SMA Sunny Island and Sunny Boy Storage, KOSTAL PLENTICORE plus, Fronius Symo Hybrid

## 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
- Emergency-backup through high discharge power

## Profitability & efficiency

- Patented wireless plug-in system for the battery modules simplifies transport and allows for fast installation
- 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:
- Battery-Box HV: three identical systems with a capacity of up to 34.5 kWh can be connected in parallel
- Battery-Box LV: three identical systems with a capacity of up to 42 kWh can be connected in parallel
- Battery-Box 13.8: 32 identical systems with a capacity of 441.6 kWh can be connected in parallel
- Due to scalability of the individual battery modules, the usable capacity can be considerably increased
- 1- and 3-phase systems for off-grid applications, self-consumption optimization and commercial applications