

# BYD BATTERY-BOX



40+

Branch Offices

600+k

Employees

Over 400 cities across 70 countries & regions in 6 continents



### NORTH AMERICA

Canada  
United States  
Mexico

### CENTRAL & SOUTH AMERICA

Colombia	Chile	Cuba	Curacao
Ecuador	Panama	Bolivia	Jamaica
Peru	Argentina	Paraguay	Costa Rica
Brazil	Antigua	Bahamas	Dominican
Uruguay	Barbados	Guatemala	Republic

### EUROPE

UK	Norway	France
Netherlands	Germany	Portugal
Sweden	Hungary	Luxembourg
Finland	Denmark	Poland
Italy	Ireland	Greece
Spain	Belgium	Romania

### ASIA PACIFIC

Chinese Mainland  
Taiwan, China  
Hong Kong, China  
Macau, China  
Japan  
South Korea  
Philippines  
Indonesia  
Nepal  
India  
Thailand  
Laos  
Sri Lanka  
Malaysia  
Singapore  
Australia  
New Zealand  
French Polynesia  
... ..

### MIDDLE EAST& AFRICA

South Africa	Jordan
Kenya	Egypt
Mauritius	Lebanon
Zimbabwe	Tunisia
Qatar	Bahrain
Israel	Azerbaijan

\*As of June, 2023

2022 Annual Revenue

**\$61.7** Billion USD

Compound Annual Growth Rate\*

**56%**

2021 Annual Revenue

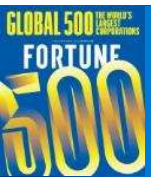
**\$33.9** Billion USD

Fortune Global 500



\* Growth Rate calculated in CNY

\* Currency Exchange Rate (2023.3.31): 1 RMB = 0.145524397165185 USD  
Source: <http://www.safe.gov.cn/safe/2023/0331/22546.html>



# BYD - 2022 FORTUNE GLOBAL 500



## 4 Main Industries



Auto



Electronics



Renewable Energy



Rail Transit



\* As of Q1, 2022



# Global NO. 1

NEV(BEV+PHEV) Sales in 2022



April 26, 2023 05:38 AM

First A

## BYD overtakes VW as China's best-selling brand

rowth Rate

The Chinese EV maker passed VW with Q1 sales of more than 440,000 cars in China, while VW brand volume totaled 427,247.

*Bloomberg*





# Welding Process

# BYD IN AUSTRALIA



## 18 BYD Experience centers

“BYD is now Australia’s **second-best-selling EV brand**, behind only Tesla.”

THE DRIVEN

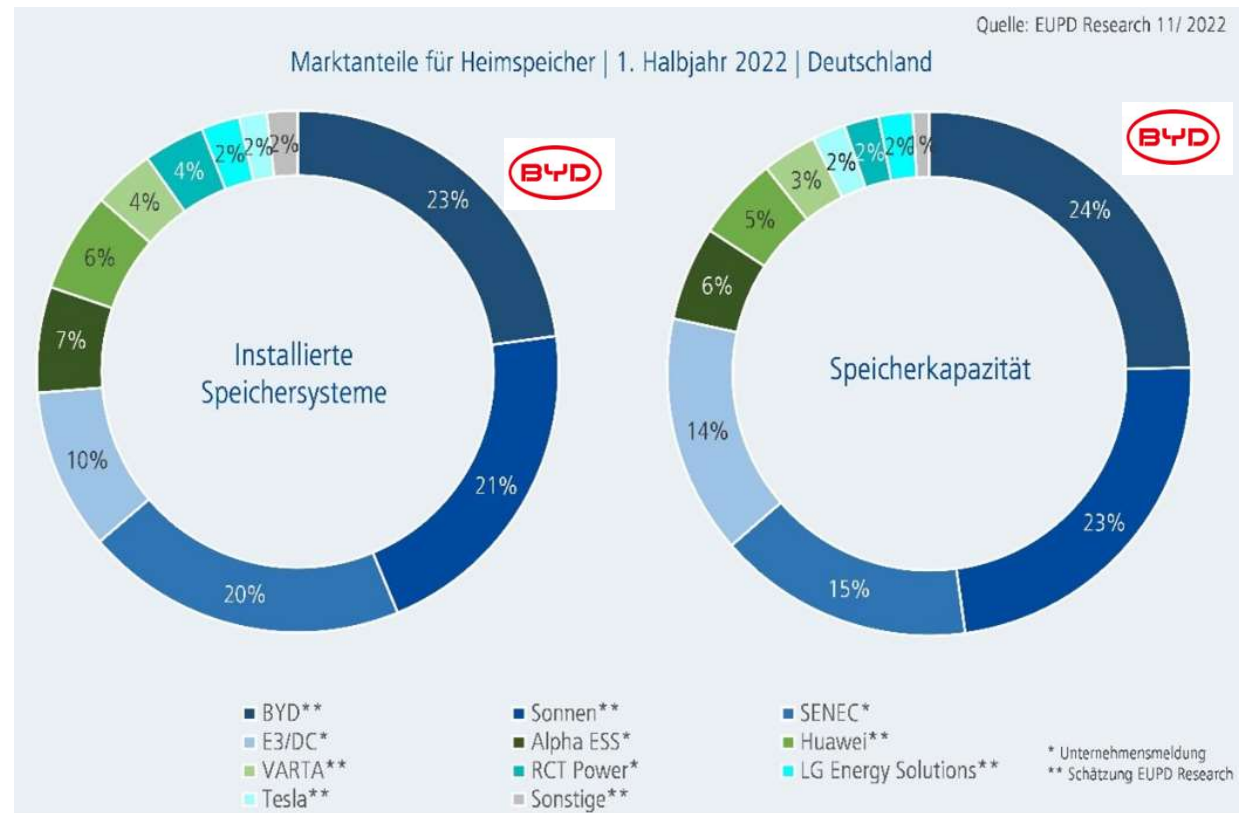


# ACHIEVEMENT



## No.1 market share in Germany 2022

Source: EUPD Research 2022





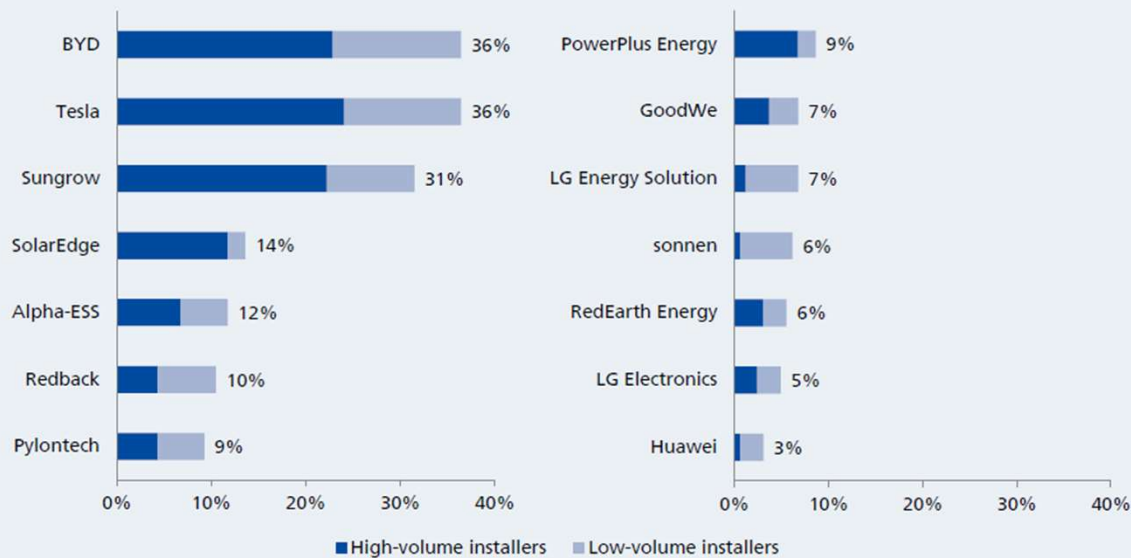
# ACHIEVEMENT



Sample | Procurement | Modules | Inverters | Mounting | Storage | HEMS

## Distribution width of storage systems

Storage systems in installers' portfolios | Grouped by size



High-volume as well as low-volume installers mainly offer energy storage systems from BYD and Tesla, closely followed by Sungrow.

For SolarEdge and PowerPlus Energy, a significantly higher share of their customers are high-volume installers.

n=162  
Source: EUPD Research 2023



# ACHIEVEMENT



## Australian Battery Market Report- 2022

**No.1** in Overall Satisfaction  
**No.1** in Guarantee Conditions

### EUPD + SunWiz: Brand Evaluations

PowerPlus Energy and Sungrow reached the highest Net Promoter Score.

Regarding the overall satisfaction, BYD achieves the best value (1.58).

In order of importance: 'Quality', 'Guarantee Conditions' and 'Service Features Including Claims Management' were the top three most important aspects of a purchase decision. The table to the right shows the top two ranking companies in each category. The figure on the following slide provides further detail.



Ranking	Quality	Guarantee Conditions
First		BYD
Second	BYD	

# BYD BATTERY-BOX EVOLUTION

GEN 1



Product: Battery-Box Pro  
Released: 2015

GEN 2



Product: Battery-Box HV  
Released: 2017

GEN 3



Product: Battery-Box Premium  
Released: 2020



# On-Grid Solution





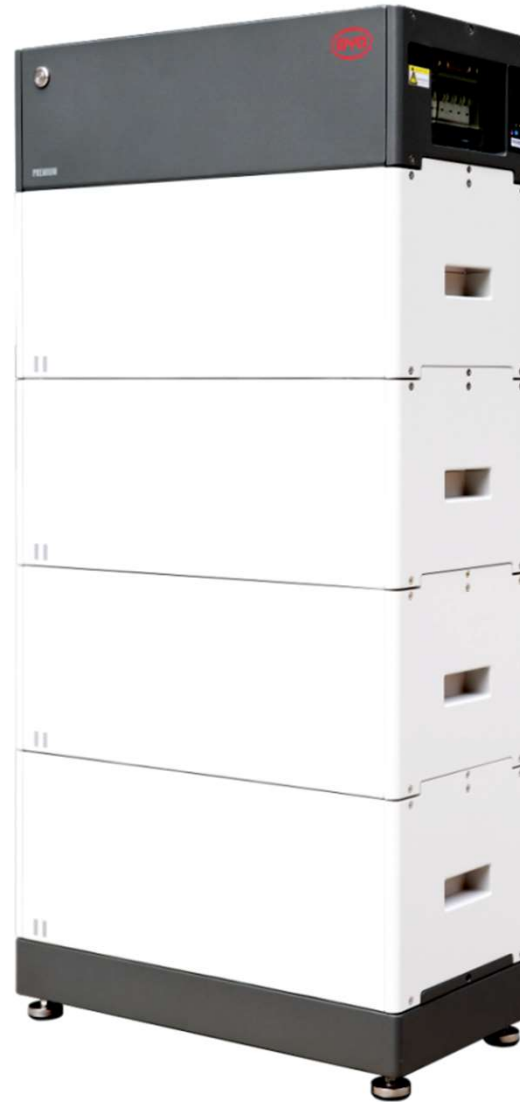
Battery  
Box™



**HVS/HVM**



**HVS**  
**2.56kWh**  
Start 5.12kWh  
Up to 30kWh+



**HVM**  
**2.76kWh**  
Start 11.04 kWh  
Up to 60kWh+





Battery  
Box

HVS -  
Small Capacity  
High Power





■  
**HVS -  
Small Capacity  
High Power**  
  
■





■  
**HVM -  
Large Capacity**  
■







 Battery™  
Box

■  
HVM -  
Large Capacity  
■





■  
**HVM - Parallel**  
■

Maximum capacity with a single Fronius GEN24 Plus is **57.9kWh**.



# BYD MONITORY

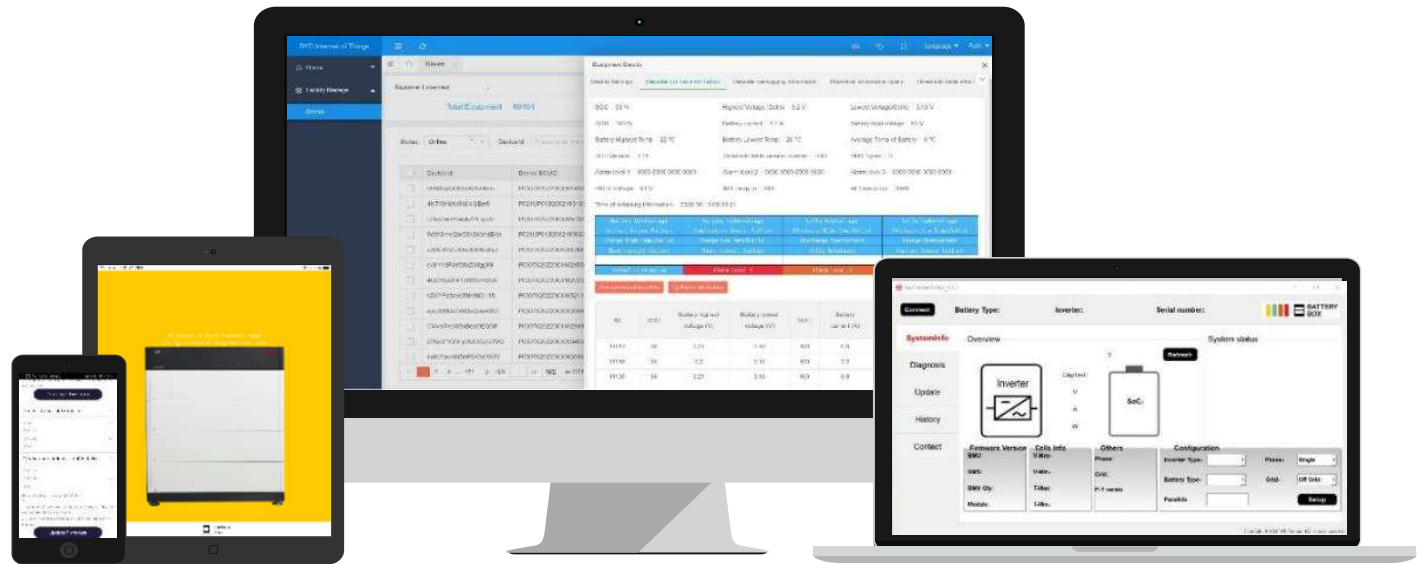


## Mobile App(BC) Be Connect 2.0

For Android / Apple systems; cell phones and pad also available.

## PC Offline Application(BCP) Be Connect Plus

Mainly serves offline systems with more functions.

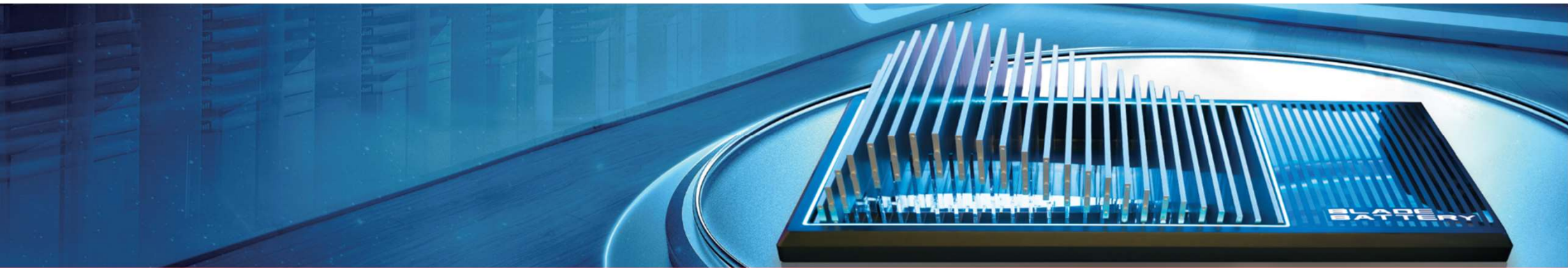




## WHY BYD

**SAFETY**

**Performance**





# Blade Battery



Redefining the standards  
of EV **Safety**

The Blade Battery has passed the  
"Mt. Everest" Nail Penetration Test  
to achieve high levels of energy density and safety  
at the same time.

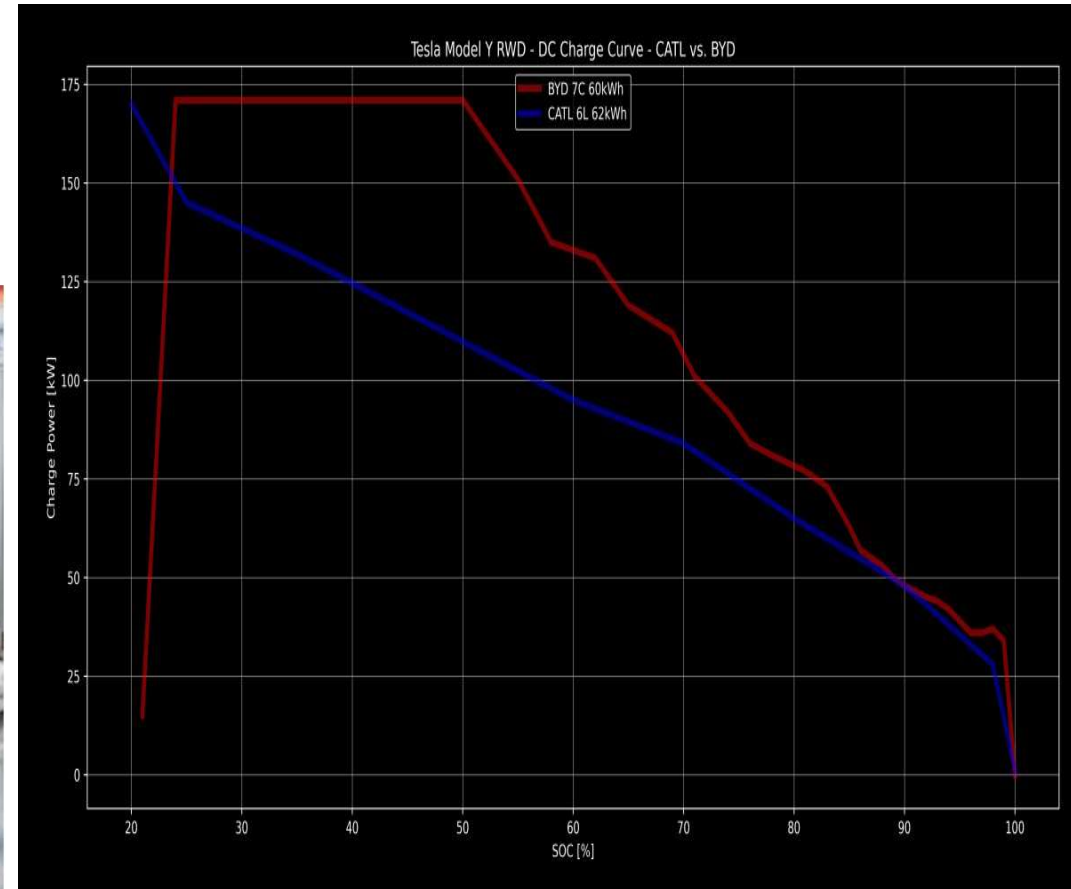


# BYD Blade Battery



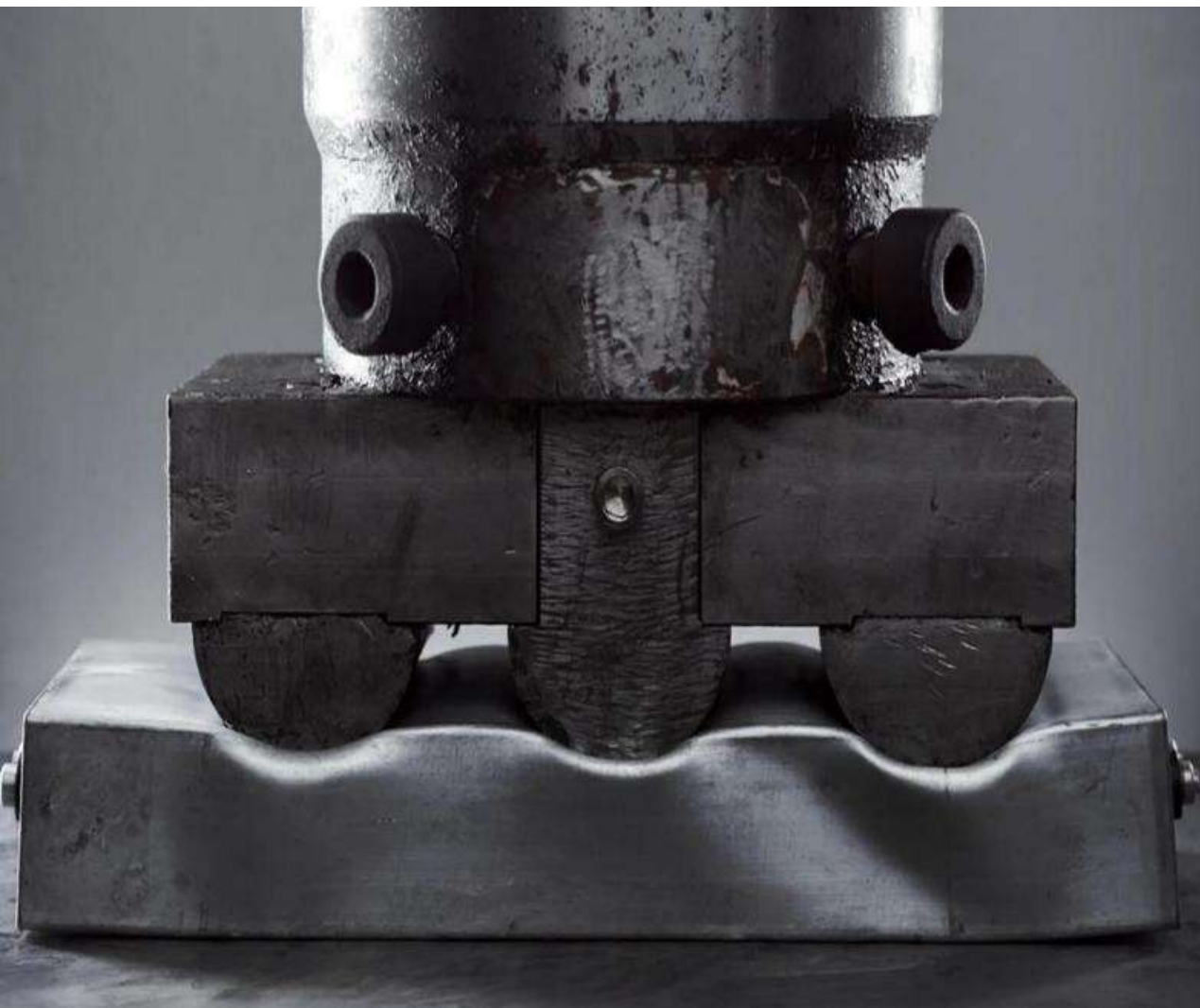
## Tesla's switch to BYD batteries is achieving faster charging times

MAY 22, 2023 · 75 COMMENTS · 3 MINUTE READ · DANIEL BLEAKLEY



Model Y with the new BYD battery packs were able to maintain peak **172 kW** charging speeds until the battery is 50% charged before tapering off.

# Cell SAFETY



# BMS SAFETY

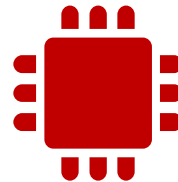


## BMS Battery Management System Technology



### 4-level Safety

Cell explosion valve device  
BIC  
BMS  
BMU

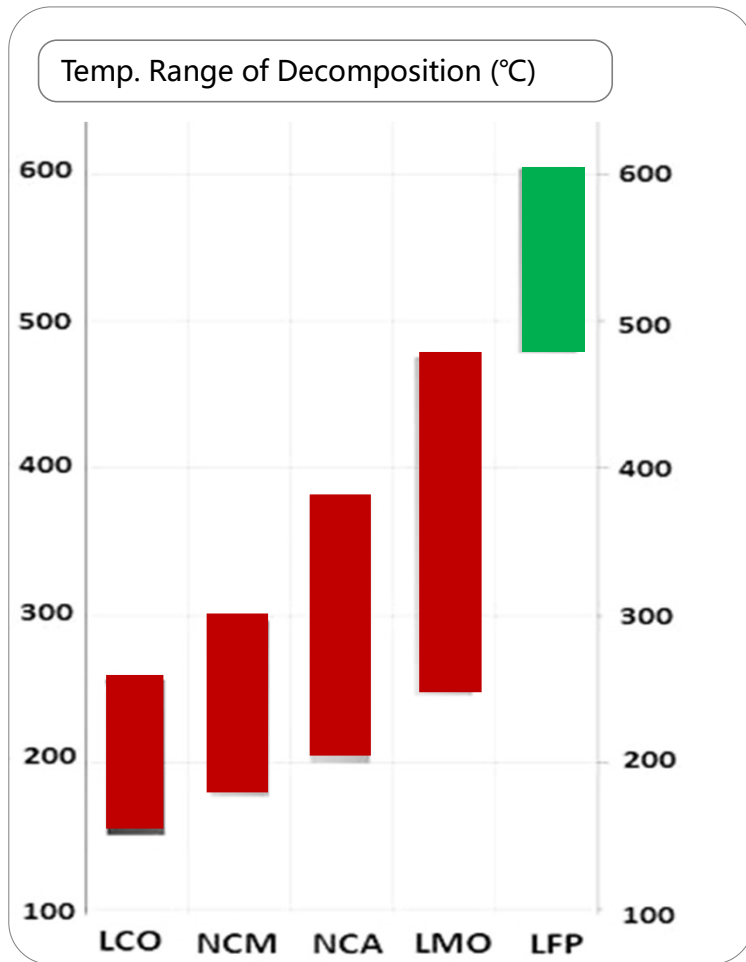


### Dual-core BMS

Minimizes incidents  
Uninterrupted battery functions



# Chemistry SAFETY



**500,000+**  
**Installation**

**90+**  
**Countries**

**8**  
**Years Tracking Record**

**SAFEST BATTERY CHEMISTRY**

**LFP-LITHIUM IRON PHOSPHATE**

# PERFORMANCE



## 5 - YEAR BEST EFFICIENCY

Energy Storage Inspection HTW BERLIN



AC-coupled systems

DC-coupled systems

# BYD Vertical Intergration

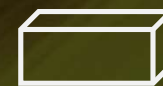


Mineral resources  
development

Process Development

BMS R&D  
Manufacture

Pack R&D  
Manufacture



Material Research  
Manufacture

Cell R&D  
Manufacture

Module R&D  
Manufacture

Recycle

—

# THANKS

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