



*Feb, 2022*



# CONTENT

**1** ABOUT BYD

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**2** BYD BATTERY-BOX

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**3** INFORMATION CHANNEL

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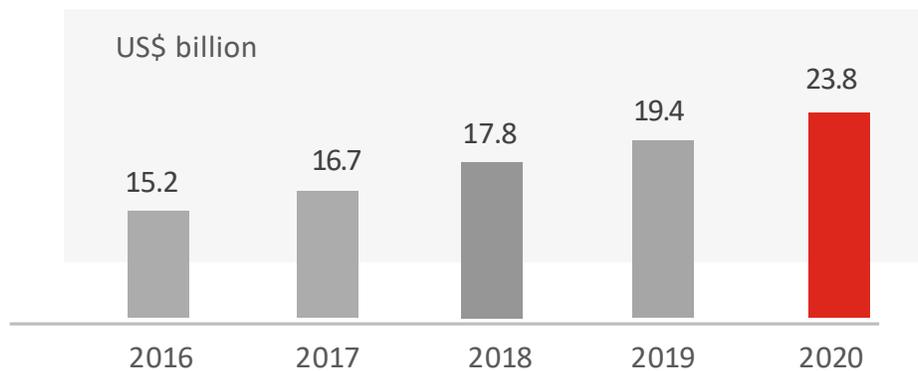




# ABOUT BYD



2020 Sales Revenue US\$23.8 Billion  
YoY increased by 22.6%



# GLOBAL PRESENCE

A MULTINATIONAL COMPANY

with Global Talents, Global Supply Chain, Manufacturing & Operation



# FOUR INDUSTRIES



**Auto**



**Electronics**



**New Energy**



**Rail Transit**

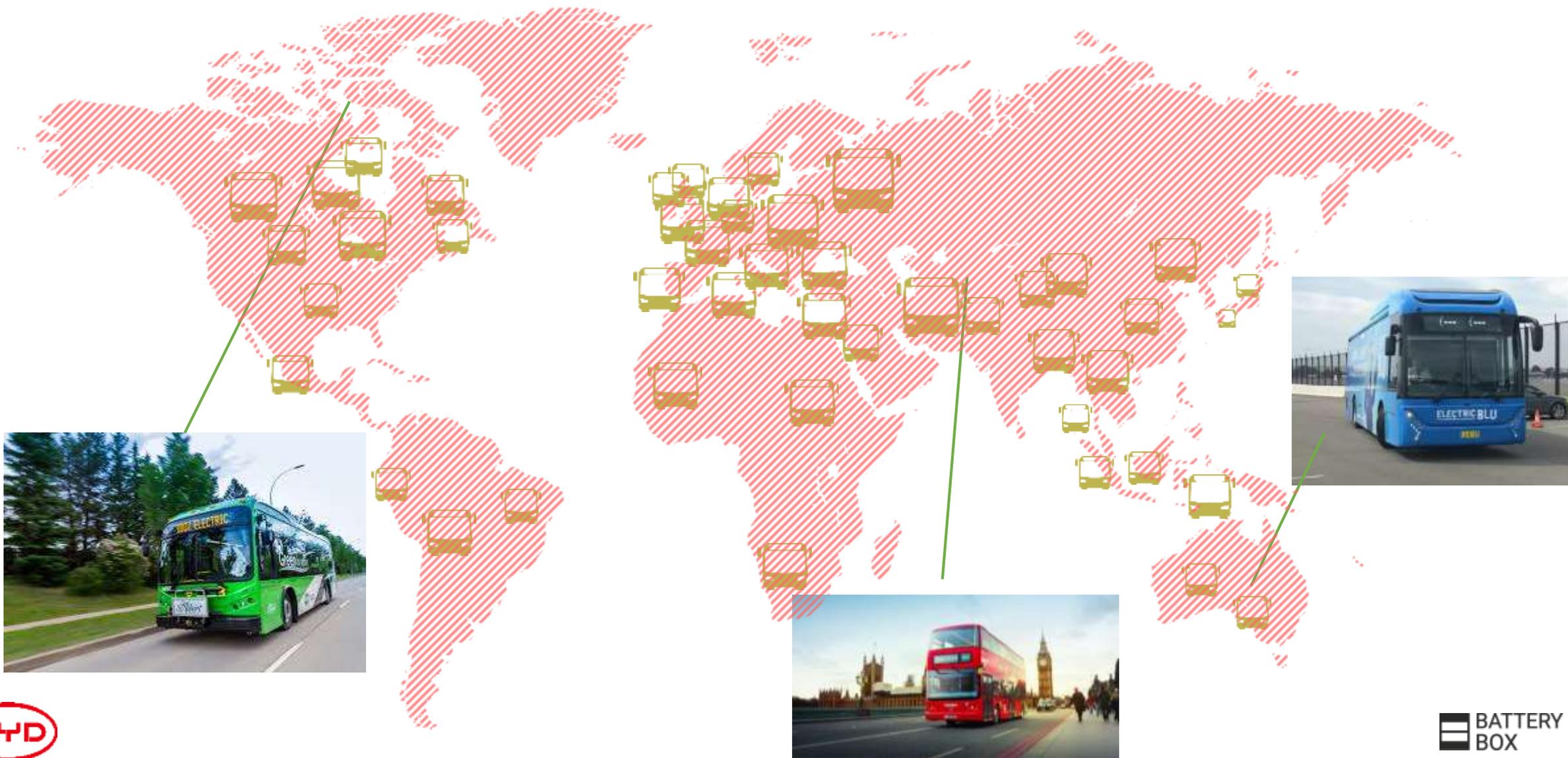


# BYD AUTO - PASSENGER VEHICLES

*World's Leading New Energy Vehicle Manufacture*

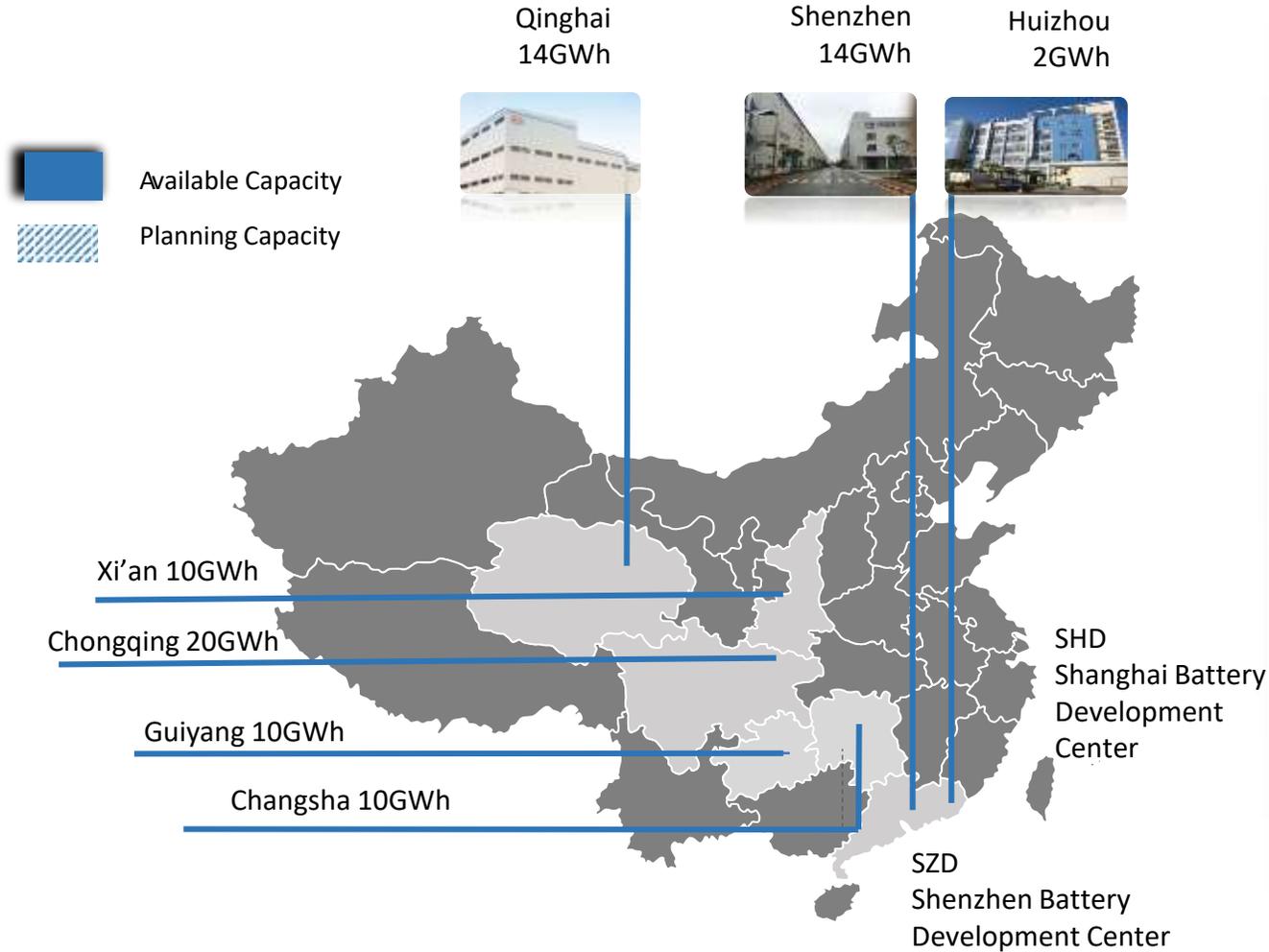


# BYD AUTO - COMMERCIAL VEHICLES



 BATTERY BOX

# BATTERY PRODUCTION CAPACITY-65 GWH/YEAR



**In 2021**  
TOTAL INSTALLED CAPACITY OF NEV  
POWER BATTERIES AND ENERGY STORAGE BATTERIES

# 37.921 GWh



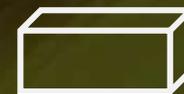
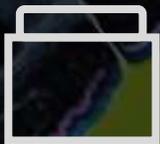
# BYD BATTERY END TO END INDUSTRY CHAIN LAYOUT

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





# BYD BATTERY-BOX



# SOUTHEAST ASIA ESS MARKET

Grid Scale

2.04MWh ~



Containerized ESS/BYD CUBE

C&I

On Grid



BYD Battery -Box  
HVS/LV Flex Lite

Residential

Off Grid



BYD Battery -Box  
LV Flex Lite



# BYD BATTERY-BOX EVOLUTION

GEN 1



GEN 2



GEN 3



Product: Battery-Box Pro  
Released: 2015

Product: Battery-Box HV  
Released: 2017

Product: Battery-Box Premium HV  
Released: 2020



# BYD BATTERY-BOX ACHIEVEMENT

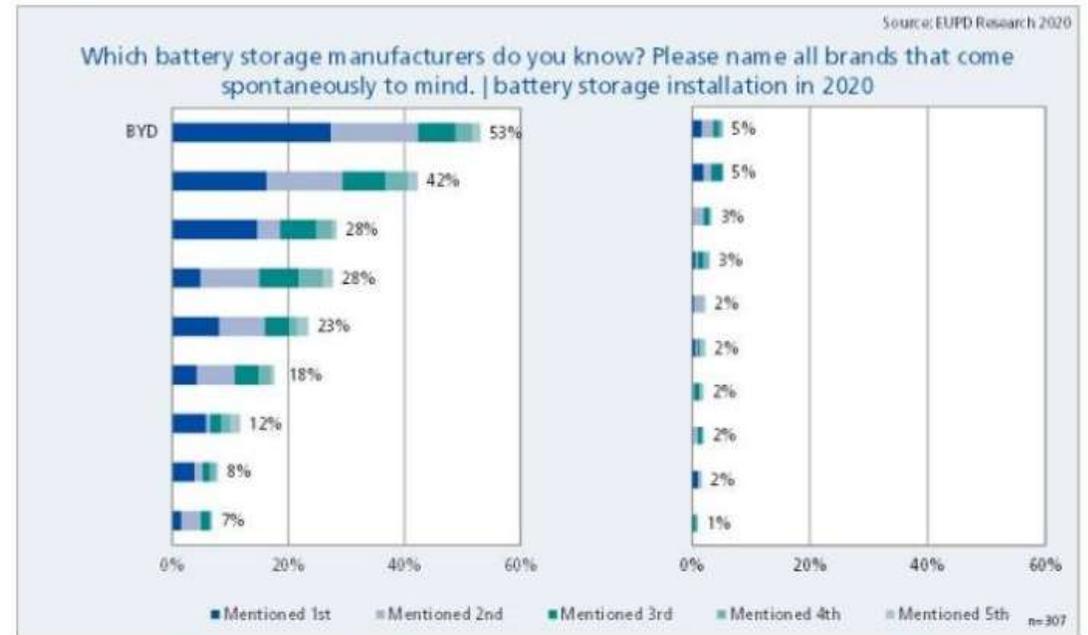
## TOP 1 Brand Awareness

From EUPD Research 2020, BYD is the most well known battery storage manufacturer among the battery systems owners

Source: EUPD Research

### Battery storage – Unaided brand awareness (2/2)

BYD is the most well known battery storage manufacturer among the owners of battery storage systems installed in 2020.



EUPD Research

SOURCE: PUBLICLY AVAILABLE EUPD RESEARCH REPORT

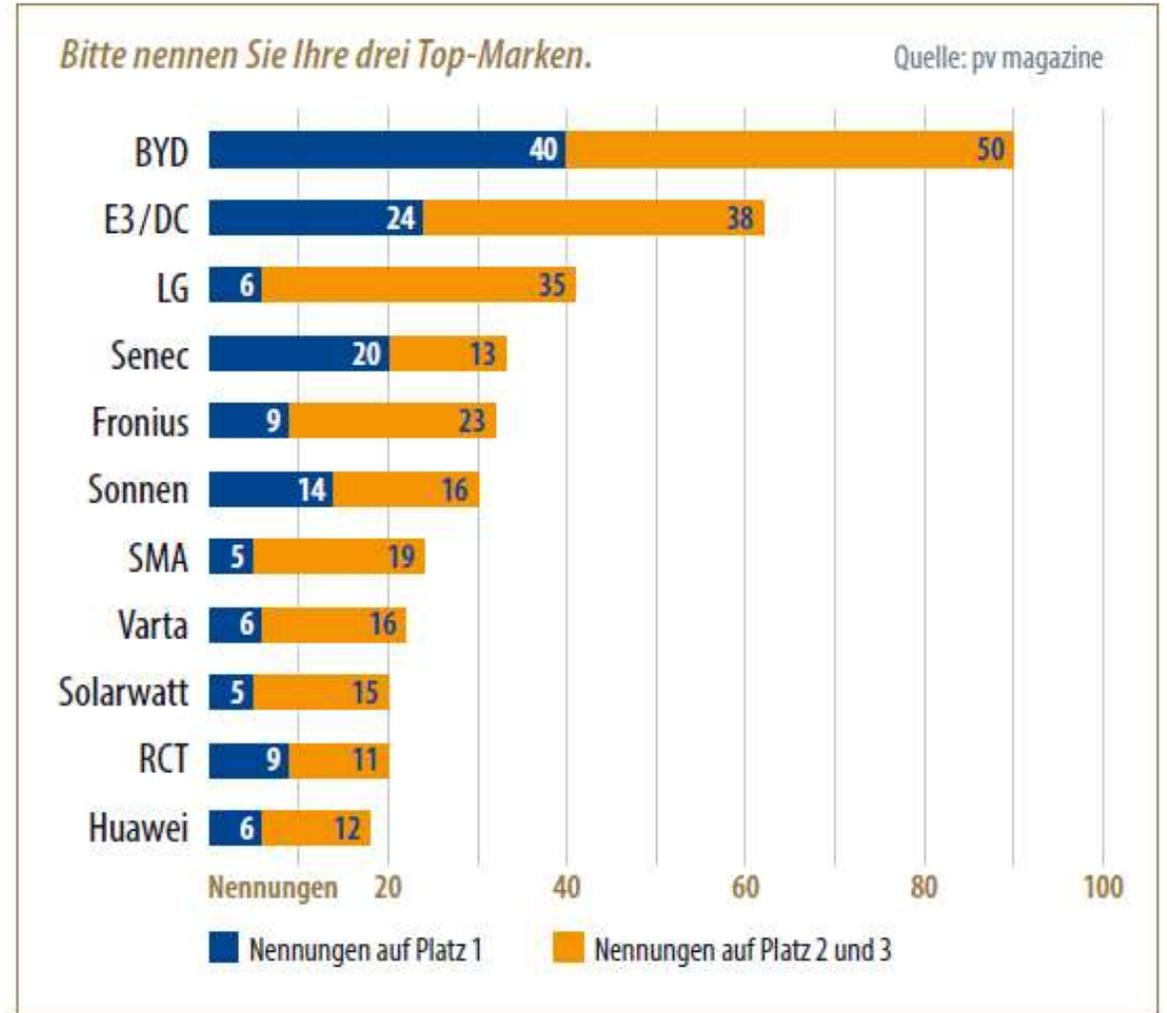


# BYD BATTERY-BOX ACHIEVEMENT

Installer Favorite ESS Brand in Germany

**TOP Choice**  
From Installer Partners

Source: PV magazine



Grafik 4: Nach den Gründen gefragt, rangieren „Kompatibilität mit verschiedenen Wechselrichtern“ und „gutes Gesamtkonzept“ vorn.

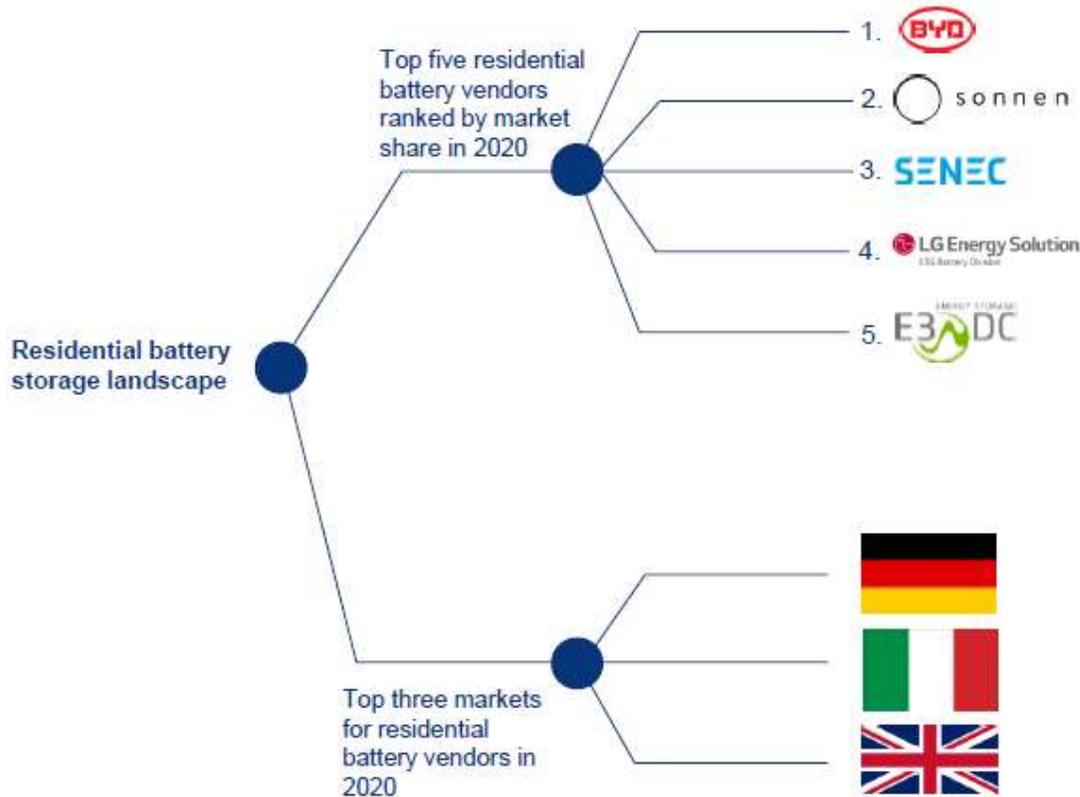
<https://www.pv-magazine.de/2021/07/02/die-3-top-heimspeichermarken-der-installateure-sind-byd-vor-e3-dc-und-lg/>



# BYD BATTERY-BOX ACHIEVEMENT

## BYD leads the European residential battery segment

Solar-plus-storage packages are offered by most solar developers in Europe



- Based on our data and estimates, **BYD** was leading the European residential energy storage market as of 2020.
- **LFP** battery chemistry currently dominates the residential segment. BYD and Sonnen, the leaders of the European residential storage markets, both work with LFP battery chemistry. With a noted shift and tendency of other energy storage providers to LFP, we expect this battery chemistry's market share to increase in the coming years.
- For the top five listed residential battery vendors in Europe, residential storage is the main market. However, BYD, Sonnen, SENEK and E3DC have all already provided storage technologies for C&I customers.
- Based on our analysis and estimates, most residential battery vendors target Germany as their main market with 60-70% of their installation happening in this country. This focus alerts the potential of overcrowded markets in the near future. Investment outside Germany, Italy and the UK will unlock 14 GWh of distributed storage demand by 2030.

*\*Rankings are based on both Wood Mackenzie's estimates and collected company data*

Source: Wood Mackenzie



# AWARDS



**2017**  
Top Innovation  
Award of Time  
Photovoltaic  
Magazine



**2018**  
Champion of Battery  
Efficiency Test



**2018-2020**  
Top Rank in the  
System  
Performance Index  
by HTW in Germany



**2018-2021**  
EUPD Research Top  
Photovoltaic  
Energy Storage  
Brand

# BYD BATTERY-BOX PREMIUM LINEUP FOR SEA



HVS



LV Flex Lite



# 4 HIGH ADVANTAGES

**HIGH SAFETY**



**HIGH RELIABILITY**



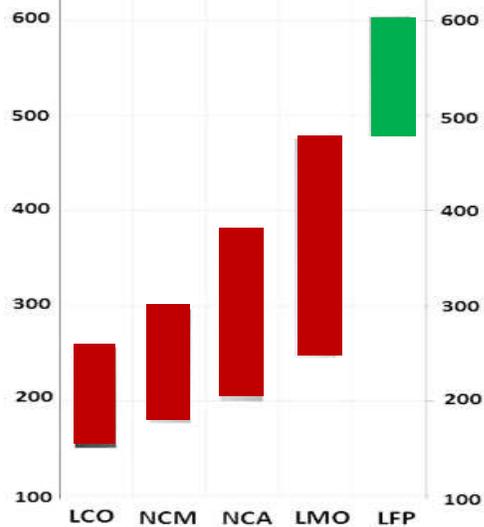
**HIGH FLEXIBILITY**



**HIGH USABILITY**



Temp. Range of Decomposition (°C)



**220,000+**

Global Installation Experience

**7 Years**

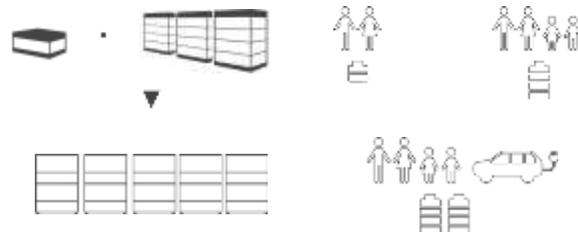
Tracking Records

**90+ Countries**

Footprints

**0**

Fire Accident



**Extension**



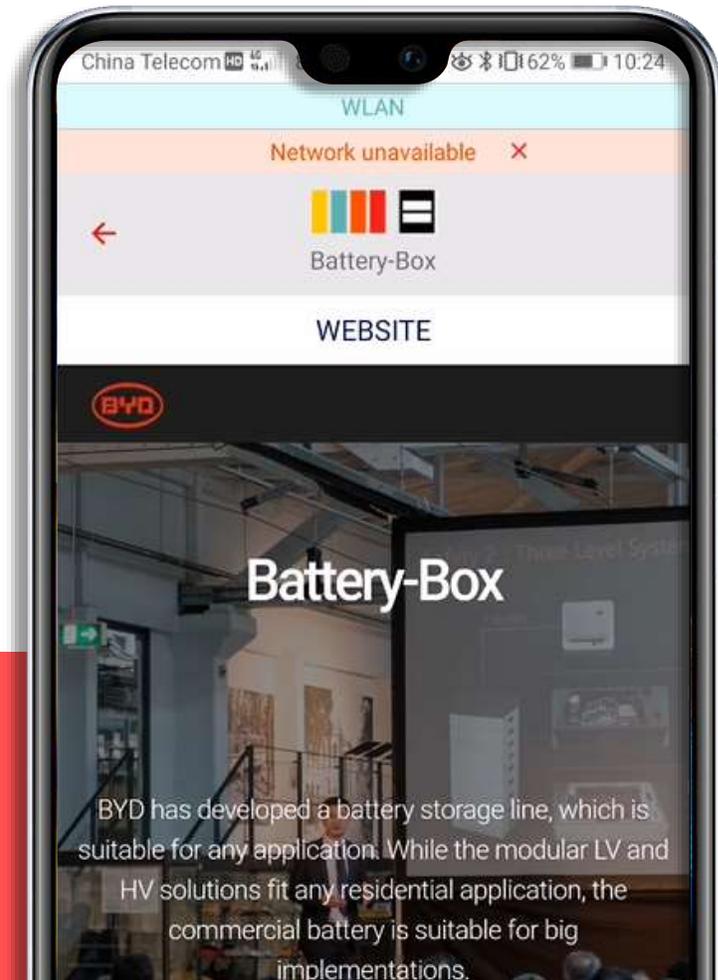
**Installation**

GET IT ON  
Google Play

Download on the  
App Store



# Be Connect 2.0



## New App Be Connect 2.0

Battery-Box New Mobile App with easier user interface, real time data displaying, event recording and more smart functions.





**LV Flex Lite**



# LV Flex Lite



1 x LV Flex Lite



4 x LV Flex Lite



64 x LV Flex Lite



# LV Flex Lite Parameter



LV Flex Lite

Usable Energy [1]	5.0 kWh
Max Cont. Output Current [2]	70 A
Peak Output Current [2]	105 A, 5 s
Dimensions (H/W/D)	132x 482 x 510 mm
Weight	47 kg
Nominal Voltage	51.2 V
Operating Voltage	43.2 -57.6 V
Operating Temperature	-10 °C to +50°C
Battery Cell Technology	Lithium Iron Phosphate (cobalt-free)



# LV Flex Lite Compatibility with Studer



Compatible Inverter (1- / 3-phase)		Minimum Configuration for Single Phase			Minimum Configuration for Three Phase		
		On Grid	On Grid with Full Backup Power	Off Grid Inrush Use	On Grid	On Grid with Full Backup Power	Off Grid Inrush Use
Studer	XTS1400-48	≥1	≥1	≥1	≥2	≥2	≥2
	XTM2600-48	≥1	≥2	≥2	≥3	≥4	≥4
	XTM4000-48	≥2	≥3	≥3	≥4	≥7	≥7
	XTH6000-48	≥2	≥4	≥4	≥6	≥9	≥9
	XTH8000-48	≥3	≥5	≥5	≥8	≥13	≥13
	Next3	-	-	-	≥5	≥6	≥6
	VT-65	≥1	≥1	≥1	≥3	≥3	≥3
	VT-80	≥2	≥2	≥2	≥4	≥4	≥4
	VS-70	≥1	≥1	≥1	≥3	≥3	≥3
	VS-120	≥2	≥2	≥2	≥6	≥6	≥6
Battery firmware: BMU ≥ V1.22, BMS ≥ V1.13; Inverter firmware ≥ R664							



# LV Flex Lite Warranty



## 1.2. Limited Product Warranty

BYD warrants that the Product will be free from defects in materials or workmanship for **five (5) years** from Warranty Start Date, subject to the exclusions and limitations set out below.

## 1.3. Limited Performance Warranty

- a) BYD warrants that the Product will (i) retain **sixty per cent (60%)** of its Usable Energy for **seven (7) years** from the Warranty Start Date (“Original Period”) (If the Product connecting to the internet within the Original Period, the period of the Limited Performance Warranty will extend to **ten (10) years**) or (ii) reach the Minimum Throughput Energy, whichever comes first, on the condition that the Product is operated in a normal manner that adheres to the manual guidelines provided by BYD.

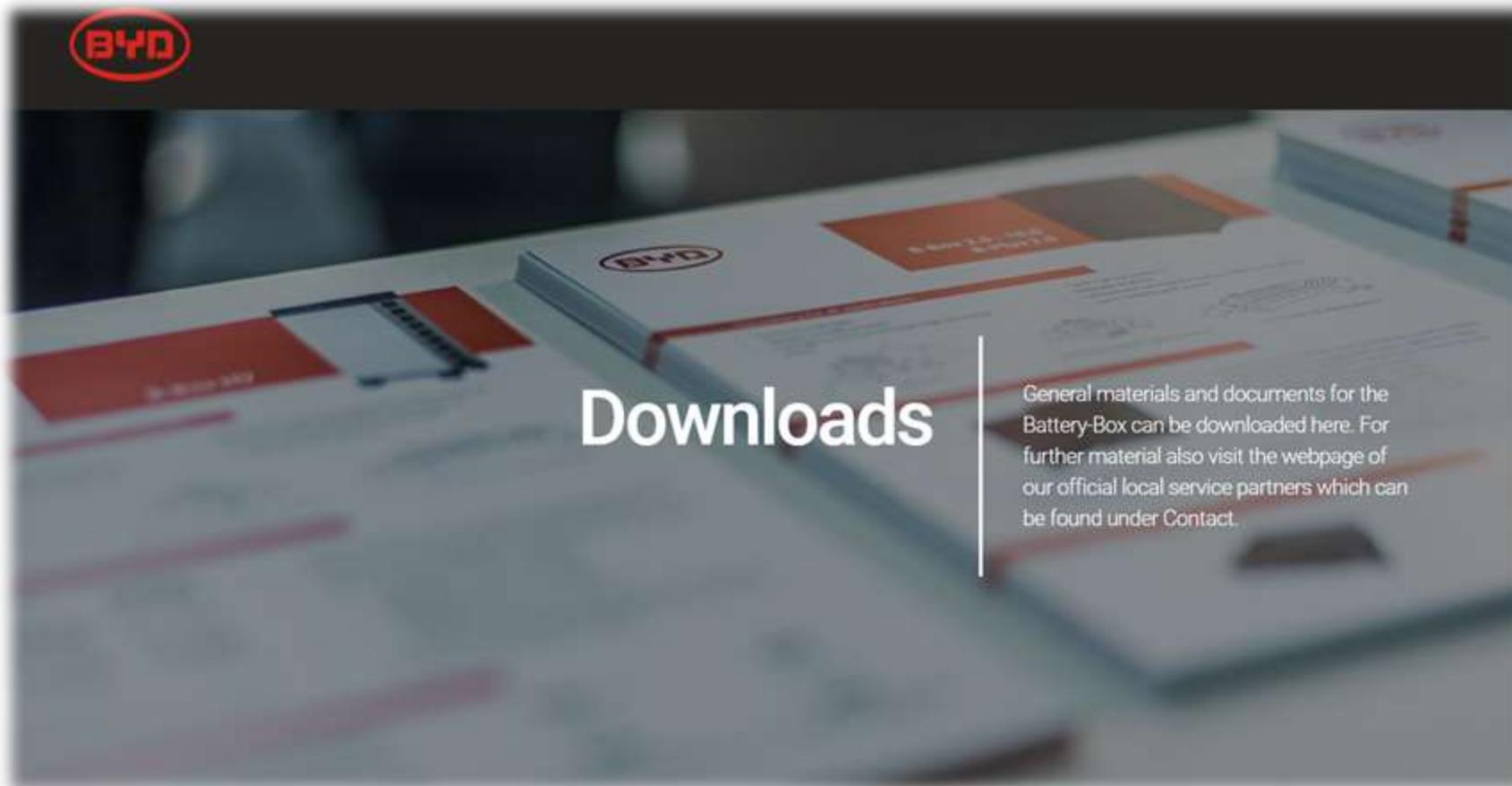




# INFORAMTION CHANNEL



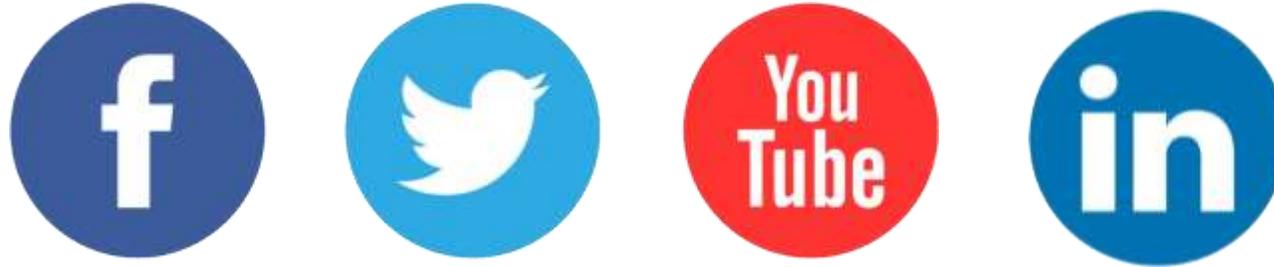
# BYD BATTERY-BOX WEBSITE



[www.bydbatterybox.com](http://www.bydbatterybox.com)



## SOCIAL MEDIA & NEWSLETTER – STAY CLOSE WITH US!



<https://www.linkedin.com/company/byd-battery-box>

[https://twitter.com/BYD\\_BatteryBox](https://twitter.com/BYD_BatteryBox)

<https://www.facebook.com/BatteryBoxBYD>

Installation Video: <https://www.youtube.com/watch?v=sLJKRbH3f90>





BATTERY  
BOX

# Thanks

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