

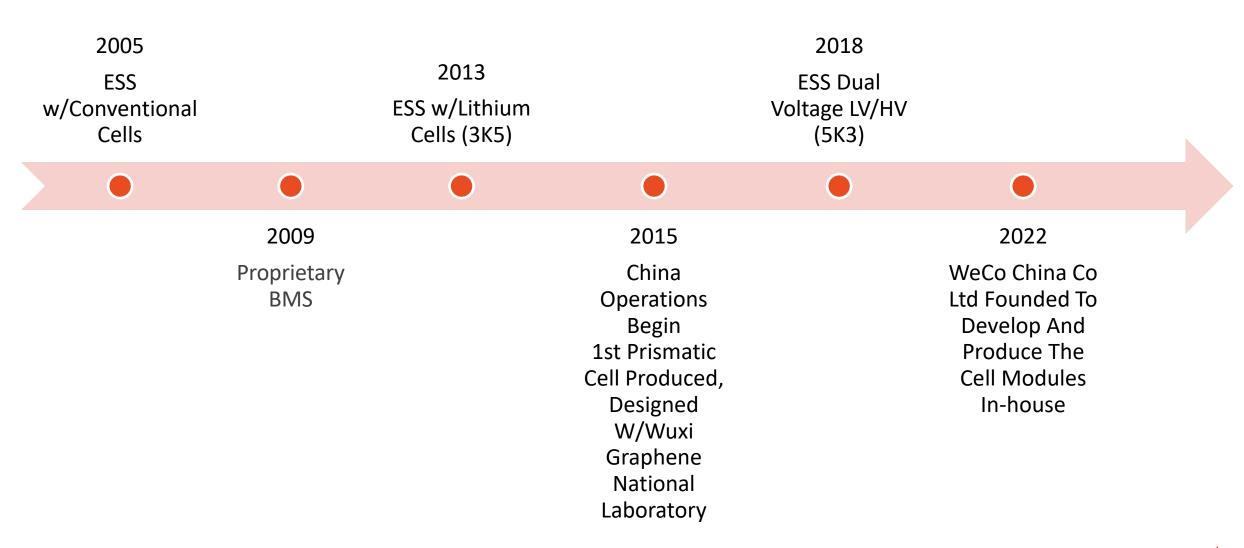
WeCo Company Profile

WeCo Group is a leading Battery Energy Storage System (BESS) manufacturer active in the residential, industrial, and telecom sectors, with over 300k batteries produced yearly.

- WeCo Srl is the Italian headquarter & manufacturing company located in Florence Italy
- WeCo China is a manufacturing company based in Dongguan (China).
- WeCo UAE is the Middle East, Africa distribution hub, and R&D center.
- WeCo Australia is the APAC distribution and service center.



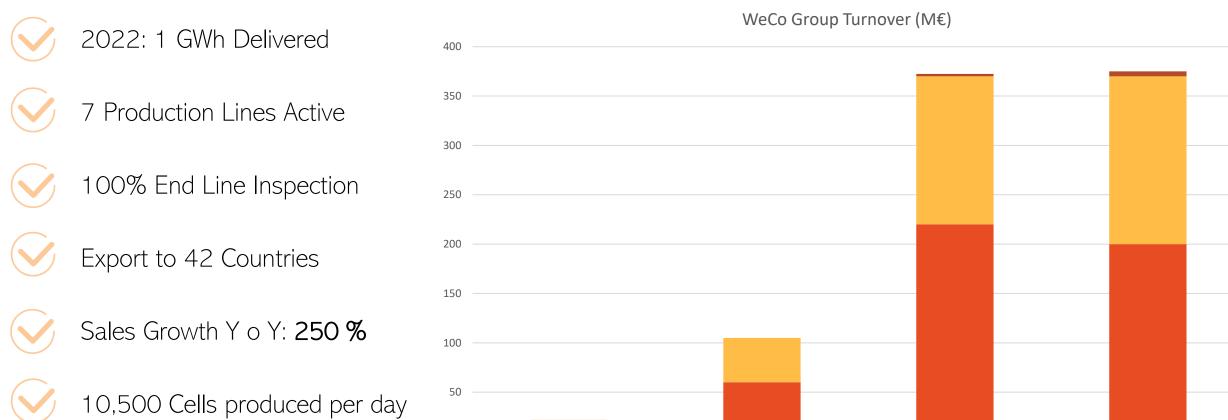
Our Story: The Last 17 Years



Our numbers

Company profile

1000 Batteries Delivered per Day



WeCo is strengthening its leadership in the ESS business, increasing customer satisfaction.

2021

■ EU APAC + ME ■ USA

2020



2023 (**)

2022 (*)

Quality, facts



WeCo Quality Standards for Grade A Cells

- ➤ Maximum Voltage difference of 0.2% during sorting
- > Capacity and dimensions variation after the first cycle must be < 0,5%
- ➤ The temperature must be < 45 °C (ambient temperature 25 °C) when charging at 1C



> A WeCo grade A cell capacity is >5% than the nominal capacity.



Test Report No.: SZES220800472701

Date: 2022-09-15

4.1	TABLE: Charge preparation phase			
Sample No.		OCV at start of test (V dc)	Charge capacity (Ah)	
M1		47.39	107.81	

4.2	TABLE: 1C test			
Sample No.	Discharge capacity (Ah)	Maximum temperature of cell (℃)		
M1	106.45	45.0		
Supplementary information:				
Only the test results were recorded				

Not all LiFePO4 cells are the same.....



Cylindric Cell

Many Welding Points
One cell failure affect the entire pack
BMS cannot control each single cell
Mechanically weak



Pouch Cell

Support Low Current Suffer Temperature Excursion Mechanically Weak Subject To Swelling



Prismatic HD Cell

High Current
Temperature Stability
Mechanically Safer
Long Lasting



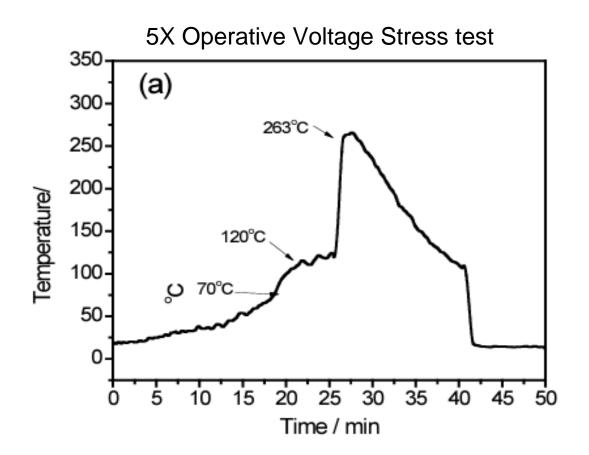
Chemistry

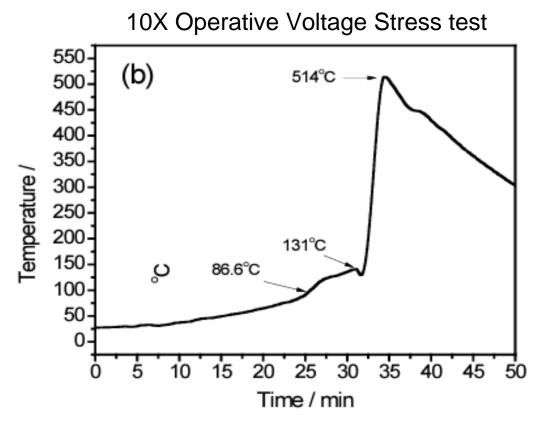
Why LiFePO4

LiFePO4

Safety, Longevity, Stability

A Prismatic LiFePO4 Cell can surpass 500 °C causing no Fire







Thermal Runaway

WeCo LiFePO4 Ignition Point 630°C

NMC Ignition Point 160°C

Performances

Cycles are not ALL....

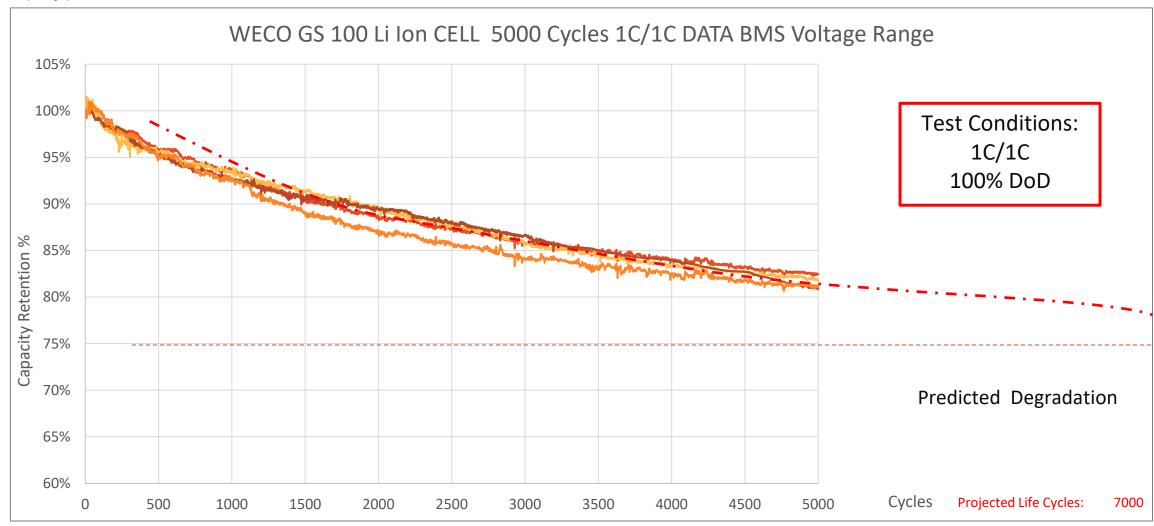
The customer's quality perception is based on the industrial standards of 5000 or 7000 cycles.

There are **other factors** you should take into consideration:

- > Operative Current
- > Operating Temperature
 - > Residual Capacity

Life Expectancy

Company profile



Based on our tests, we expect up to 20 years of battery life for typical residential applications.

Guaranteed Quality

Company profile

WeCo products are designed to last and are produced to grant performances for many years.

We are so confident in our quality, that we undersigned a specific insurance policy in cooperation with **Unipol**, a leading Italian insurance group. The insurance policy covers any WeCo battery to guarantee to third parties the design characteristics of the products for their entire useful life cycle. The insurance covers the product according the warranty conditions.





10 YEARS WARRANTY or 7000 CYCLES @ 70% Residual Capacity

Production Quality



Product Quality















Vertical Integration





WECO MANUFACTURE ALL BATTERY MODULE COMPONENTS INCLUDING

Battery Management System (BMS)

- ☐ Patented Software and Firmware
- ☐ Proprietary BMS and balancing logic.
- ☐ Digital Voltage and Thermal Sensors and for BMS

LFP Nanographene Cells

- ☐ Chemical Composition Design
- ☐ Complete Cell Design
- ☐ Patented Welding and Connection Process

Battery Module Chassis

- ☐ Patented Stack Systems
- ☐ Metal Frame Design and Production
- ☐ Complete Module Assembly

Cell Manufacturing Facilities

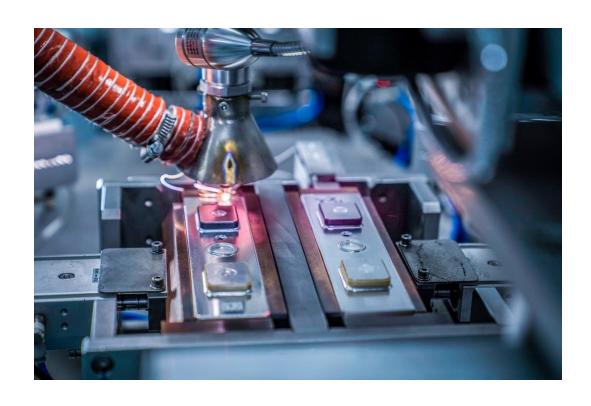








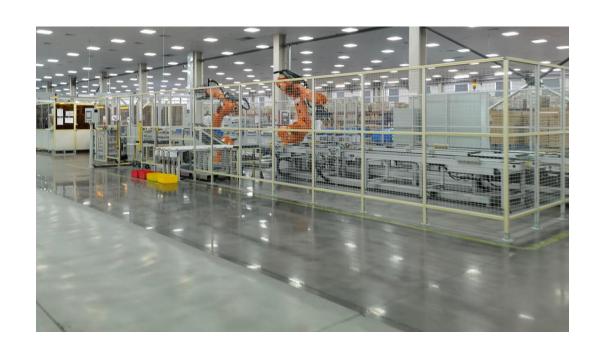
Pack processing







Assembly Line





Steel Case manufacturing





100% Hipot Test and Insulation test on every parts

3300Vdc withstanding test





100% resting period 24h + Function test before packing













2022 Best Seller





MAIN APPLICATIONS







FEATURES



AUTO START UP & ID ASSIGNMENT



BUILT-IN WIFI & BLUETOOTH COMMUNICATION



15 BATTERIES IN PARALLEL W/O ADDITIONAL DEVICE



16 BATTERIES IN SERIES WITH ONE HV BOX



50% MORE POWERFULL DYNAMIC EQUALIZER



7000 CYCLES @ 90% DOD

41341



FEATURES



AUTO START UP & ID ASSIGNMENT



EXTERNAL WIFI DEVICE



1C/1C CAPABILITY



15 BATTERIES IN PARALLEL



6000 CYCLES @ 90% DOD



4**35** ULTRA



FEATURES



THINNEST BATTERY ON THE MARKET: 105 MM



EXTERNAL VOLTAGE BOOSTER 50-450V DC



AUTO START-UP & ID ASSIGNMENT



15 BATTERIES IN PARALLEL (LV)



12 BATTERIES IN SERIES (HV)



8000 CYCLES @ 90% DOD

MK1



FEATURES



IP 65



CLIMA CONTROL AND A/C



FROM 60 TO 245 kWh



PARALLEL KIT FOR CONNECTING MORE CABINETS



SAFETY AND REMOTE DOOR INTERLOCK