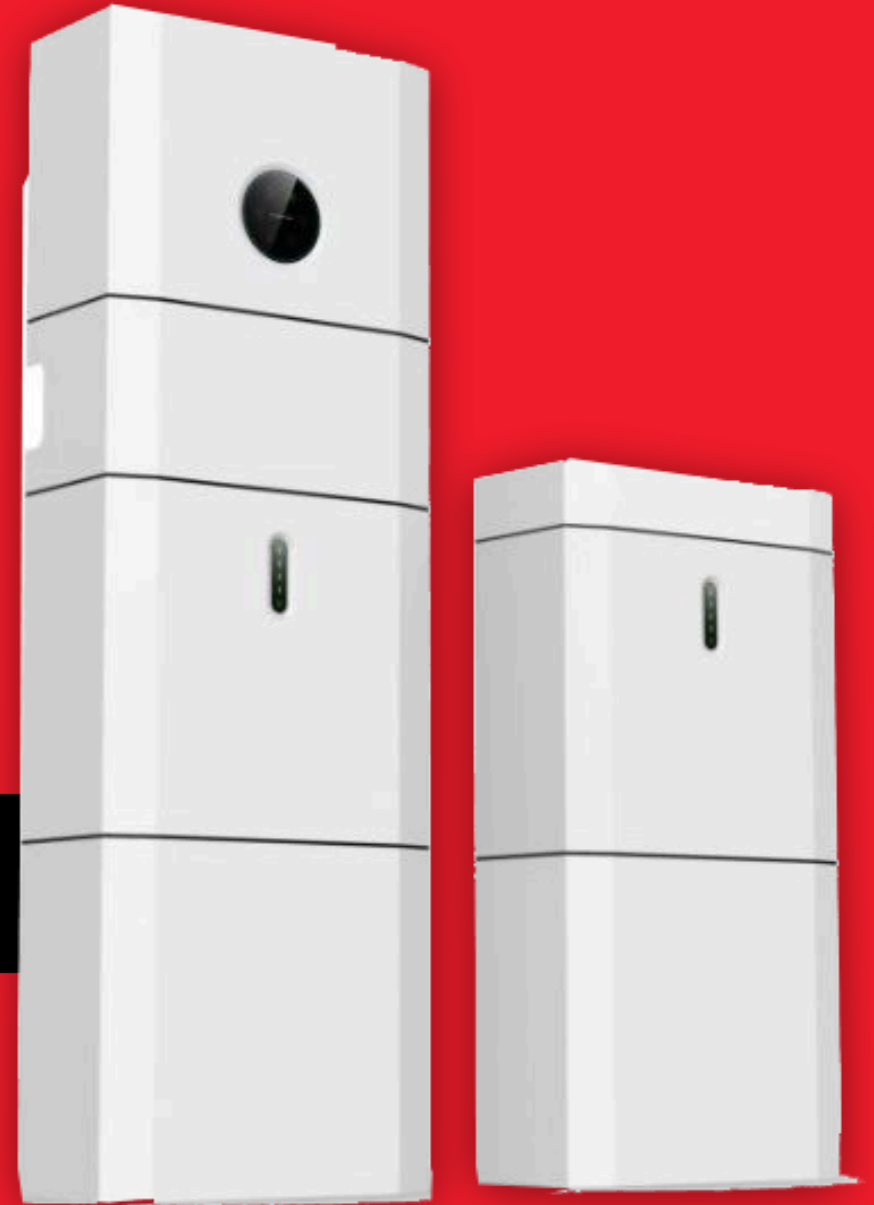


volta
ELECTRIC

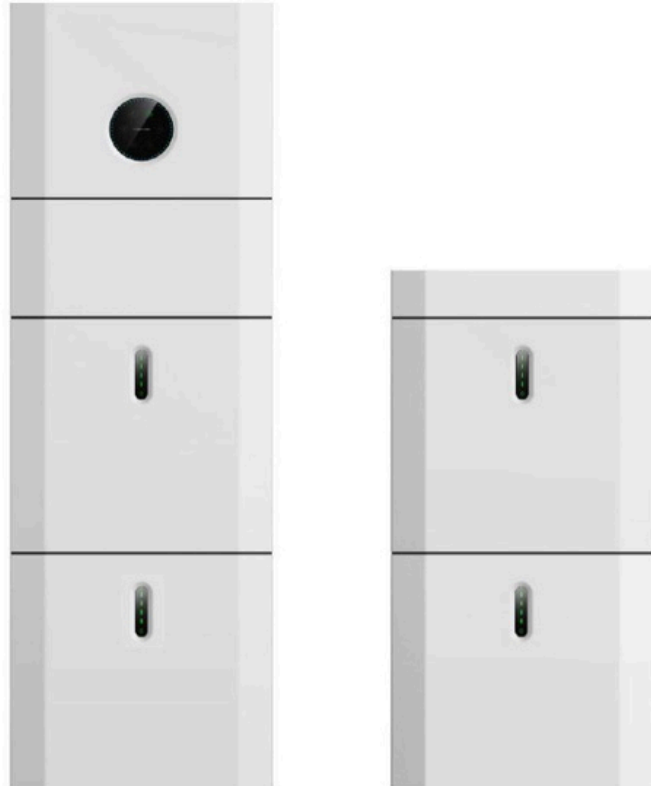
Unlimited Power



All-in-One BluE ESS

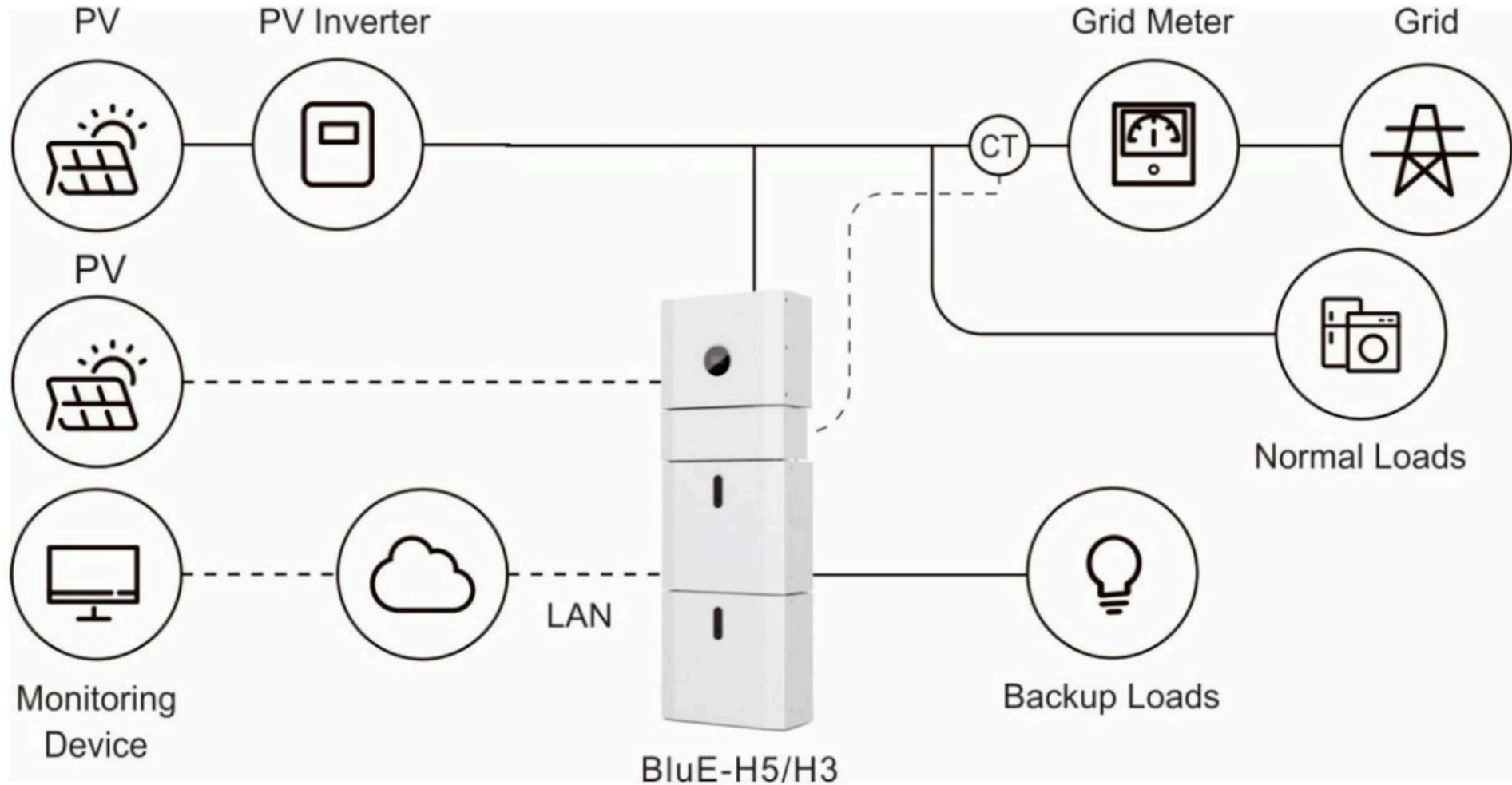
Hybrid Inverter: BluE-S 3680D/ BluE-S 5000D

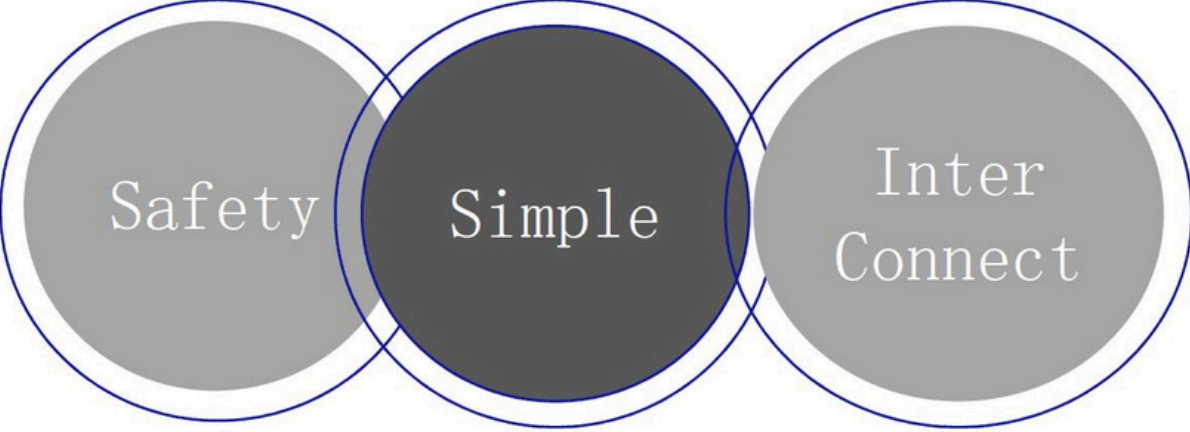
Battery Pack: BluE-PACK5.1, expandable to 20.4KWH



- All-in-One ESS IP65 Range
- Flexibility Configuration: 5.1kWh/10.2kWh/20.4kWh
- Long Duration- ≥ 10000 cycles (Lab environment)
- Battery/Grid conversion efficiency up to 94%
- CATL LiFePO4 Battery cell, Safety and 0 cobalt & nickel
- Easy installation

Typical Application - Existing / AC coupled





Labor Saving - Modular Design can be handled and installed by single person



Saving 50% installation time :

Installation in half an hour, wiring in one hour.
Quick plug connection design ,free from on-site wiring.



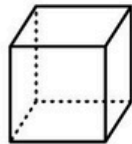
Handled by single person :

One module is less than 50kg, which can be handled by single person.



Installed by single person :

stacked and installed by single person



Minimum cover :

0.6M*0.25M (0.15 square meters)

Time Saving - Plug and Play. 0 Field Debugging



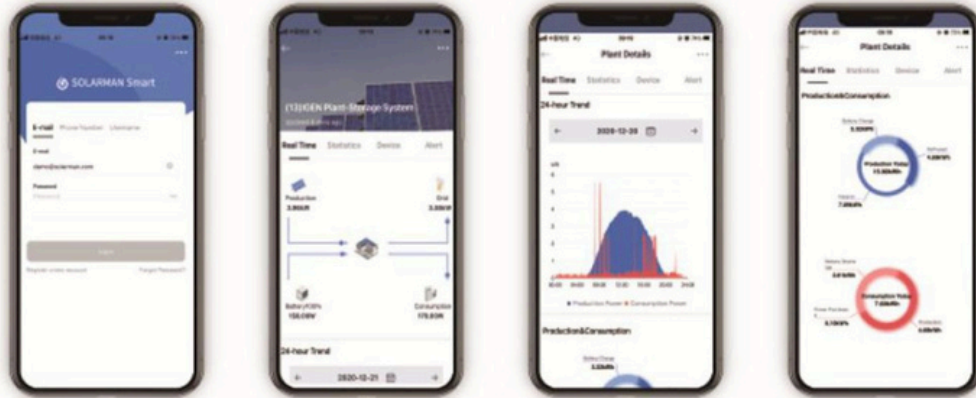
KSTAR All-in-One ESS Solution

- 🔌 Integrated distribution
- 🔌 Integrated design and quick plug connection
- 🔌 Plug and play , free of adjusting the inverter and battery together.



Other Field Integration Products

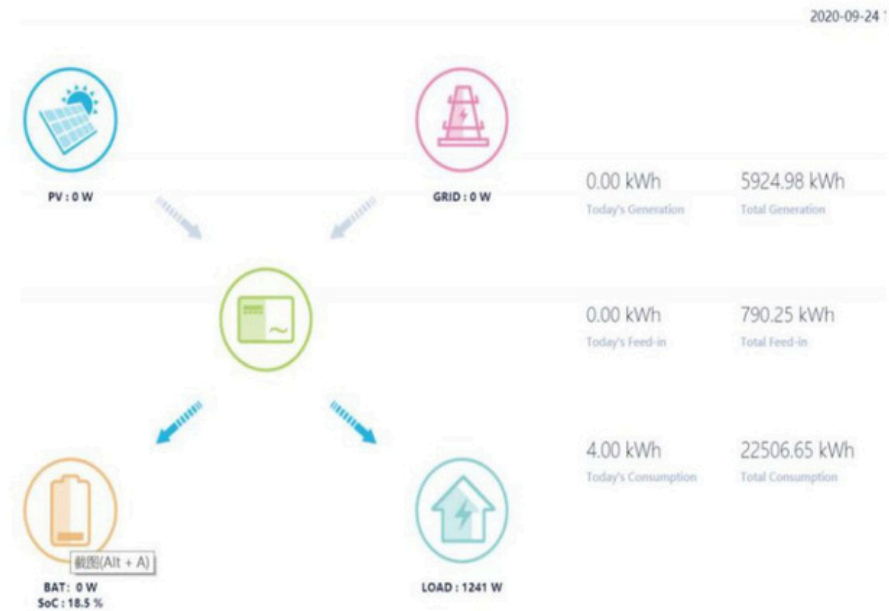
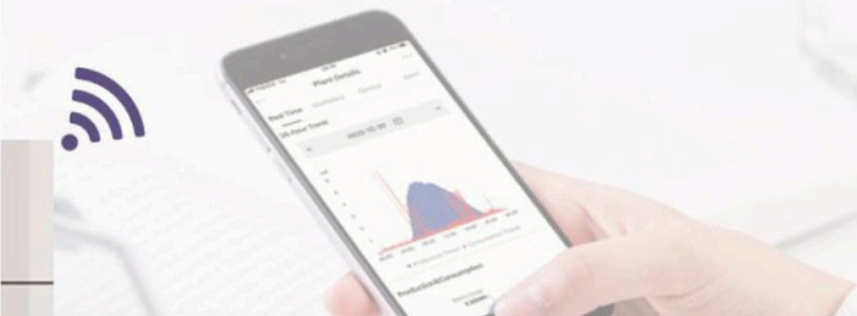
- 🔌 Making unsightly cables on the spot
- 🔌 Power distribution and installation
- 🔌 Adjust the inverter and battery together



SOLARMAN Smart home system with APP Remote access to the system

With the app you can monitor production and energy consumption of your home in real time. Set your preferences to optimize your energy independence, the protection against blackouts or energy savings.

Thanks to instant alerts and access to distance, you can control your plant wherever you are.





ESS : BLuE-S 5000D + 10.2kWh

Solar System : 6.6kw - 330W Seraphim Half-Cell

Location : Ireland

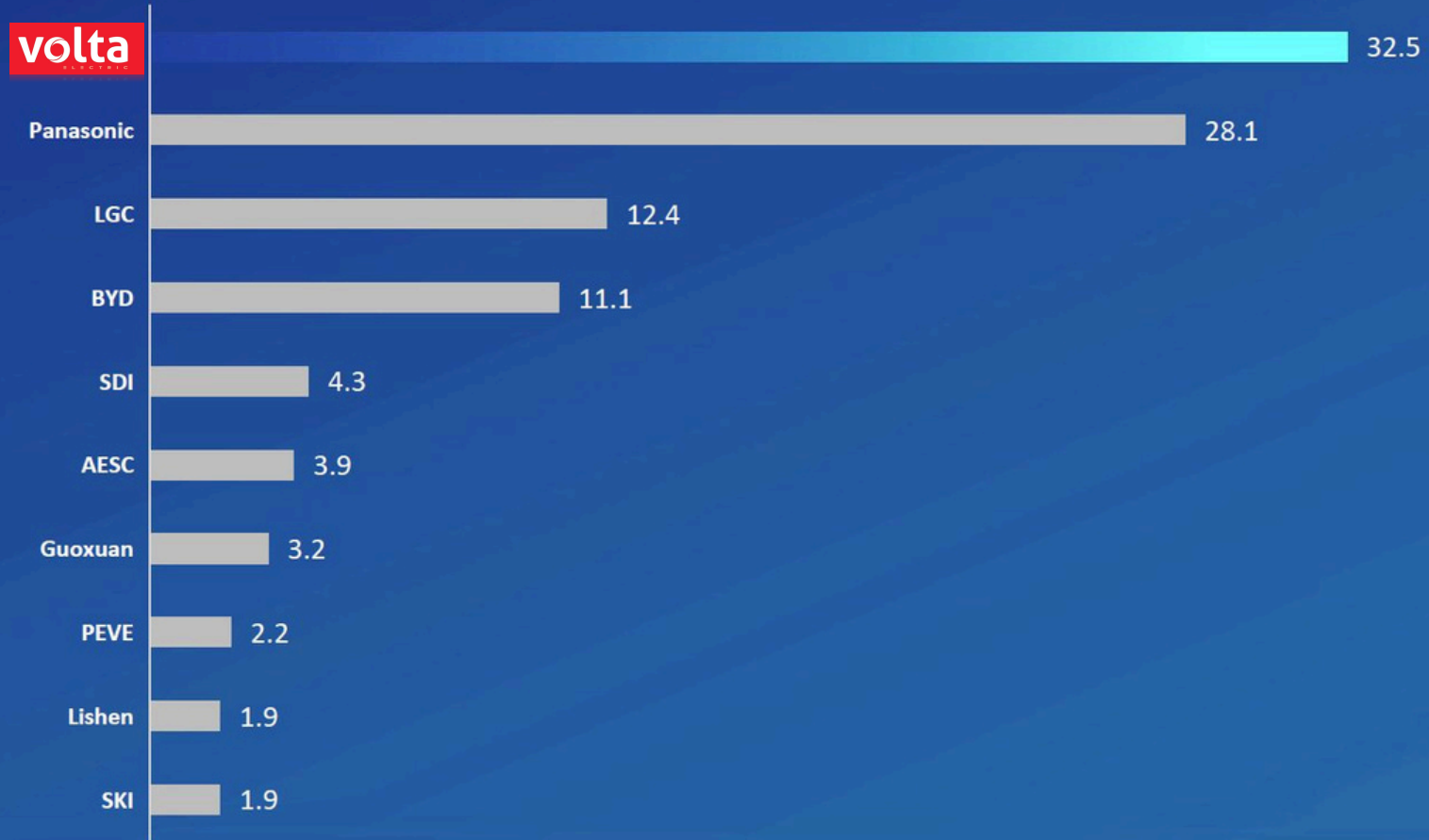
➤ Self-consumption :

- In daytime, the solar system will support the load and charges the battery
- In nighttime, the battery will support the load via the hybrid inverter.

➤ Off-grid :

- The solar panel and battery will support the loads when the power is outage.

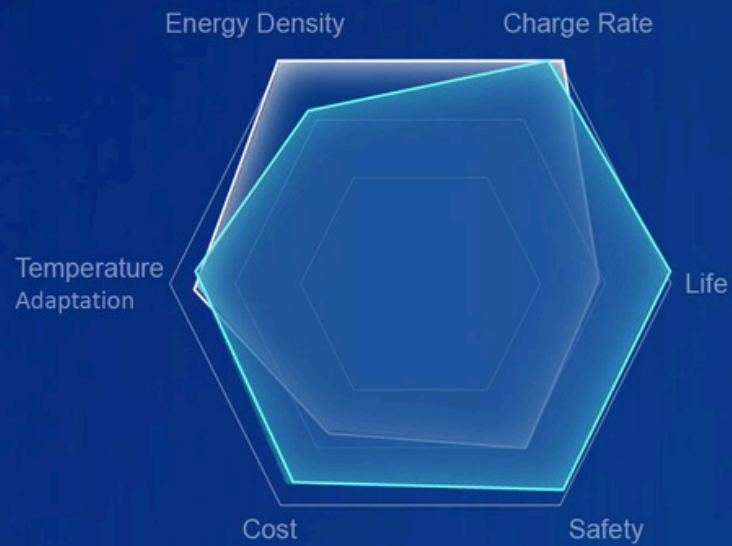
Global Top 10 Lithium-ion Battery Manufacturers in 2019 (Unit: GWh)



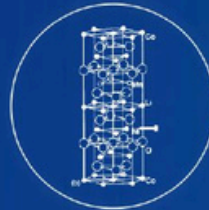
Safety

Reliability

Long Life

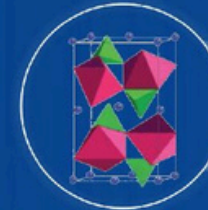


NCM Layered Crystal structure



Higher Energy Density

LFP Olivine structure



Longer Cycle Life

Safer & More Reliable

Safety

Reliability

Long Life

Comprehensive Test & Validation


273 Tests in Total

Safety  48

Reliability  125

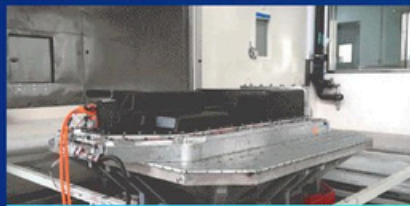
Performance  100

Monthly Test Capability

  70,000

  2,200

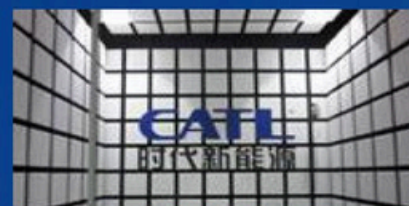
  600



Vibration Test



External Fire Test



EMC Test



Mechanical Shock Test

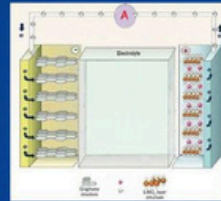
Safety

Reliability

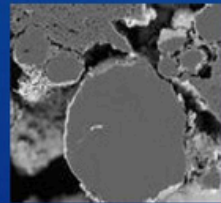
Long Life

Self-healing Technology

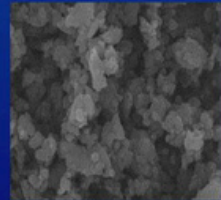
Optimize Anode/
Cathode/
Electrolyte



Graphite with
Self-healing
Structure
(Volume
ED \geq 350Wh/L)

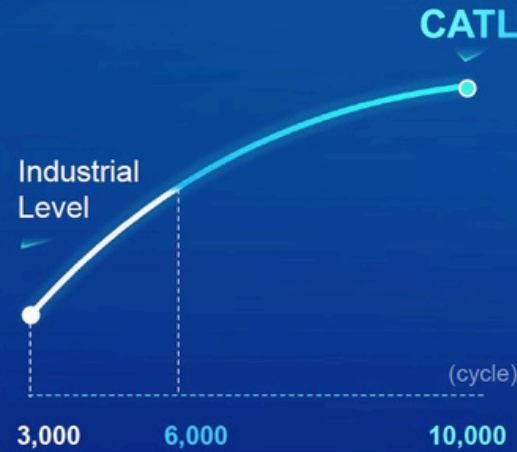


Martial Coating



CATL Long Life Product

Long Life



*@25°C, 0.5C/0.5C, 100%DOD, 80%Ret

Case Study

Jinjiang Megawatt-scale BESS Station
30MW/108MWh



- Provide peak load shifting and frequency regulation services for substations.
- The first BESS project whose life is more than 12,000 cycles.

Blue Residential ESS

All In One Energy Storage System
CATL Battery Solutions



CATL LFP Battery, stable and safe
Module, pack, system, triple protection
IP65, outdoor installation, away from living room



Modular design, single person can carry and
install it. Plug and play, 30 min quick installation
Space saving; 0.15 sq. m foot print



Global cloud platform & Mobile APP
anytime and any where
Open API, support power internet applications



BESS Overview

BluE Residential ESS Solution



volta

ELECTRIC

Unlimited Power



1 (480) 454-0618



energy@voltaelectric.com

