

Energy Storage Lithium battery ES256-100NH

Benefits

- ◆ 3-5 times longer service life than the traditional VRLA, helps to increase the systems operational reliability and saves frequent replacement cost;
- ◆ 60% lighter and 40% smaller than the exactly same capacity VRLA batteries, saves footprint, lessen the weight load and cooling consumption;
- ◆ 100% of usable energy provided by the LiFePO4 technology, allows you to discharge the battery entirely without any downtime of your operation;
- ◆ 100% charge can be done within 2.5-3 hours which is impossible for VRLA;
- ◆ Every battery comes with user friendly integrated BMS to monitor and communicate regarding the SOC, SOH, and to protect the system from short-circuit, high and low discharging and charging, temperature etc.;
- ◆ Solve problems such as high electricity prices and unstable electricity.;

Advantages



Saves money:

- ◆ 3-5 years warranty;
- ◆ 15+ years of design life;
- ◆ Up to 8X cycles than VRLA;



Save Space:

- ◆ 40% smaller;
- ◆ 60% lighter;



Reduce Risk:

- ◆ 24hrs x 7days BMS monitoring;



Manufacturing Excellence:

- ◆ 10+ years of Manufacturing experience;
- ◆ 3 OCV tests;
- ◆ 72hrs high temperature test;
- ◆ 14 days room temperature tests during production; ensures most reliable cells in the market;

ES256-100NH LiFePO4 battery deliver proven quality and excellent performance, no matter whatever your PCS brand is.

EverExceed's LFP battery systems provide a reliable and flexible solution that ensures 24/7 ESS uptime while delivering significant total-cost-of-ownership (TCO) savings. Capable of providing mega-watts of power in a small footprint, this battery solution is comprised of light-weight battery strings designed to seamlessly connect to a standard storage system. Lithium iron phosphate chemistry demonstrates superior characteristics in ESS applications, this results in high energy density, long life, flexible installation, improved cycle life and a lower TCO.

Application:

Power peak shaving and valley filling;



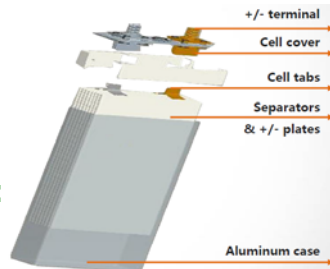
For reference

EverExceed Lithium Cell

EverExceed Energy Storage series cell are made by LFP (LiFePO4) available in both pouch and prismatic forms with light weight, stable performance and high energy density.

► **Grade A cells:**
High energy density design

► **Laser welding process:**
Reduce internal resistance



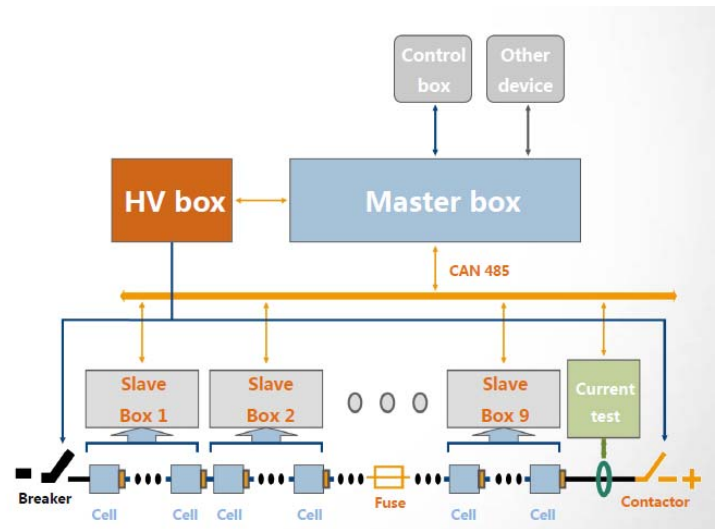
Principal function

- **System protection:**
 - Over or under temperature & voltage
 - Short circuit or communication failure
 - Over current of charge or discharge
- **Data acquisition:**
 - Cell voltage and temperature
 - Cumulative charge/ discharge power
 - Current & capacity of battery module
- **Cell balancing**
- **SOC & communication**

EverExceed Lithium Module

Whole integrated storage system with both lithium modules and BMS, quite convenient in both maintenance and installation, extendable to large scale, 19-inch standardized module.

- **Customized system with flexibility**
- **Wide range of voltage and capacity**
- **Modular design for easy installation**
- **Integrated with battery management**



EverExceed Storage System



Technical Specification:

Basic Specification

Nominal Voltage	256V(±128V)
Typical Capacity	100Ah
Energy	25.6KWh

Charging

Maximum charging voltage allowed	288V
Normal Charge current	50A
Maximum charging current allowed	100A@battery initial temperature 25±5°C

Dis-Charging

Output voltage range	200~576V
Normal discharge current	50A
Maximum dis-charging current allowed	400A
Cutoff voltage	200V

Others

Temperature	Charging: 0~45°C, Dis-charging: -20°C~60°C
Size (L*W*H)	600*800*1600mm
Weight	300±30KG