

Energy Storage Lithium battery ES480-100RTP

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:

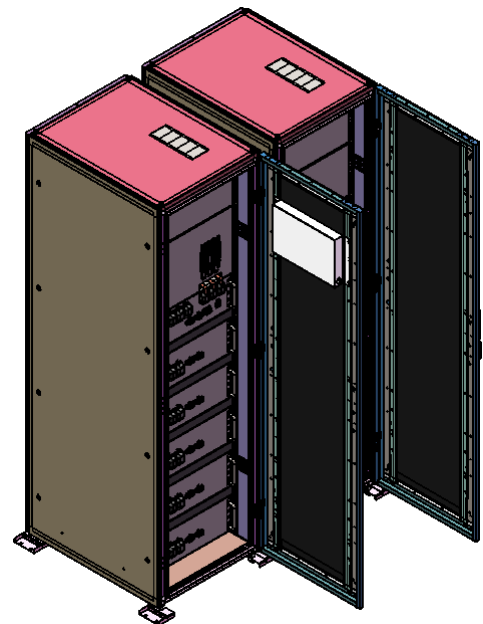
- ◆ 10+ years of Manufacturing experience;
- ◆ 3 OCV tests;
- ◆ 72hrs high temperature test;
- ◆ 14 days room temperature tests during production; ensures most reliable cells in the market;

ES480-100RTP LiFePO4 battery deliver proven quality and excellent performance, no matter whatever your PCS brand is.

Power-All 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 lightweight 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;

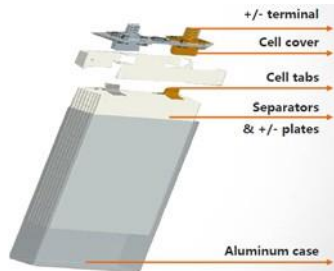


Power-All Lithium Cell

Power-All 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

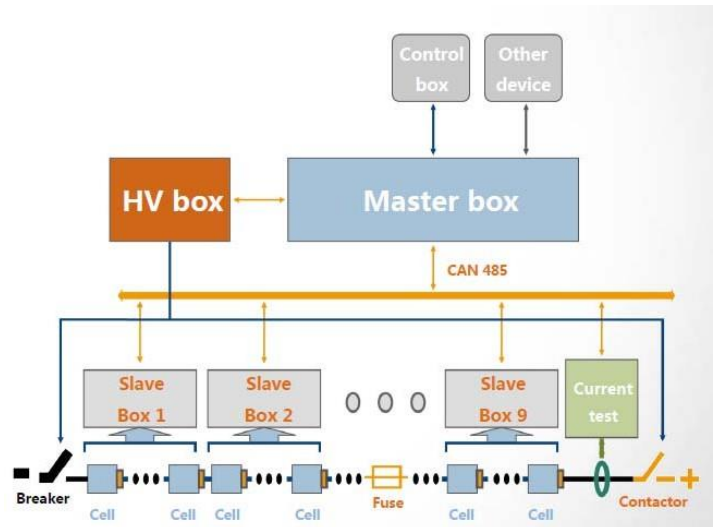
▶ **Cell balancing**

▶ **SOC & communication**

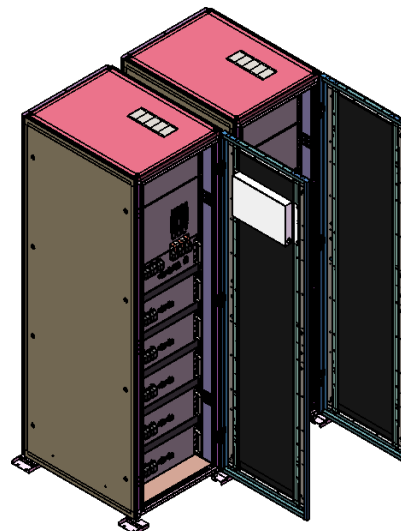
Power-All Lithium Module

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**



Power-All Storage System



Technical Specification:

Basic Specification

Nominal Voltage	480V
Typical Capacity	100Ah
Energy	48KWh

Charging

Maximum charging voltage allowed	576V
Normal Charge current	50A
Maximum charging current allowed	100A@battery initial temperature 25±5°C

Dis-Charging

Output voltage range	400~576V
Normal discharge current	100A
Maximum dis-charging current allowed	600A
Cutoff voltage	400V

Others

Temperature	Charging: 0~45°C, Dis-charging: -20°C~60°C
Size (L*W*H)	1300*800*2100mm
Weight	720±20KG