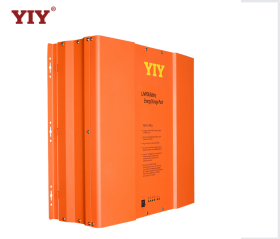
5.12 kWh LiFePO4 Battery Pack

This LiFePO4 battery pack offers 5.12kWh of energy storage. Available in 12.8V, 25.6V, and 51.2V options, it features a long cycle life and reliable performance for home energy systems.

ADDITIONAL IMAGES



Overview

High-Performance LiFePO4 Energy Storage

This 5.12 kWh Lithium Iron Phosphate (LiFePO4) battery pack is designed for reliable home and commercial energy storage. It features a long cycle life of over 3,500 cycles at 80% Depth of Discharge, ensuring a durable and stable power supply for off-grid or backup applications. Equipped with an intelligent BMS and active balancing technology, it provides high safety and efficiency for solar systems, communication stations, and data centers.

Key Performance

Rated Energy Capacity

5.12 kWh
Total Energy

Service Life	e3500cycles at 80% DOD

Technical Configurations

Available Models

Model	Rated Voltage	Rated Capacity	Cell Config
LFP12400H	12.8V	400Ah	4S4P
LFP24200H	25.6V	200Ah	8S2P
LFP48100H	51.2V	100Ah	16S1P

Charging Specifications

Standard Charge Data

- Operation Temperature: 0~45°C
- Max Charge Voltage: 14.2V / 28.4V / 56.8V (by model)
- Overcharge Protection: 14.6V / 29.2V / 58.4V (by model)
- Recommended Charge Current: <200A / <100A / <50A (by model)

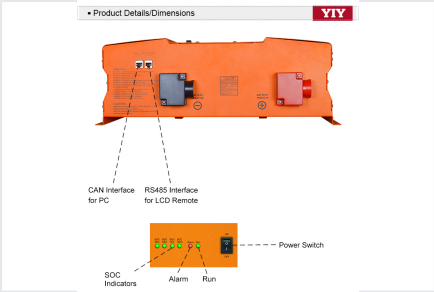
Discharge Specifications

Standard Discharge Data

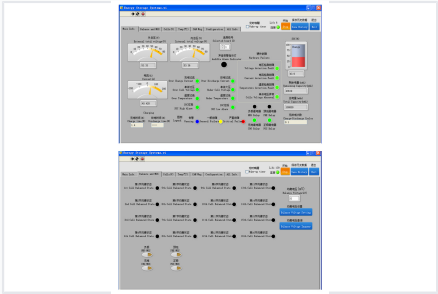
- Operation Temperature: -20~60°C
- Discharge Cut-off Voltage: 10V / 20V / 40V (by model)
- Peak Discharge Current: 480A / 240A / 120A (withstand 5s)
- Output Voltage Range: 10-14V / 20-28V / 40-56Vdc

Management & Communication

Optional remote LCD and computer monitoring for real-time system status.



Detailed view of CAN/RS485 ports, SOC indicators, and power terminals.



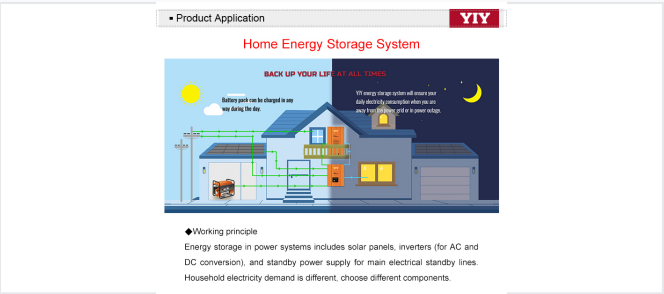
Comprehensive software interface for monitoring cell voltage, SOC, and cycle counts.

Communication Interfaces

CAN • RS485

BMS Technology	Intelligent BMS, Active Balancing, Automatic Calibration, Master-Slave Parallel, Real-time Monitoring

Applications



Integration of the battery pack within a home solar and backup energy system.

The battery pack connected to PV panels, utility power, and household appliances.

Target Applications

- Home Energy Storage Systems (ESS)
- Communication Base Stations
- Data Center Backup Power
- Solar/Renewable Energy Systems
- Marine & RV Power Supply
- Industrial Backup Power

Physical & Environmental	
Unit Dimensions	516 x 550 x 187 mm
Net Weight	48 kg
Ingress Protection	IP31 (Indoor use only)
Operating Environment	0-30°C, 65% Humidity

Compliance	
Safety Certifications	CE, TUV, UN38.3, MSDS