

SF-30 12.8V LiFePO4 Battery Specifications

Features Of Battery

✓ Smart BMS Protection

Built-in Smart BMS delivers comprehensive battery protection, ensuring safe, stable, and reliable performance.

✓ Stainless Steel Compression

Reinforced stainless steel straps help reduce cell swelling and improve durability.

✓ Anti-Vibration Structure

Dedicated mounting frame keeps the BMS secure during transportation and vibration.

✓ Grade A LiFePO₄ Cells

Original Grade A cells with full traceability for reliable and long-lasting performance.

✓ 2,000+ Deep Cycles



Battery Advantage

Lightweight Design

- Compact and lightweight construction for easy installation and handling.

Long Cycle Life

- Up to 2,000 charge/discharge cycles for long-lasting performance.

Durable Housing

- One-piece ABS+PC flame-retardant enclosure with a robust structure and clean appearance.

PCB Integrated Protection

- PCB-based voltage sensing and current collection reduce wiring complexity and improve reliability.
- Individual cell fuses provide additional over-current protection.

Intelligent BMS Protection

- Integrated Battery Management System (BMS) monitors and protects the battery.
- Provides protection against overcharge, over-discharge, over-current, short circuit, and temperature abnormalities.
- Maintains stable and safe battery operation.



12.8V 30Ah Lithium battery

SPECS OF BATTERY AND BMS

ELECTRICAL SPECIFICATIONS

Nominal Voltage	12.8V
Nominal Capacity	30Ah
Nominal Energy	384Wh
Internal Resistance	$\leq 22\text{m}\Omega$
Control	Battery management system 30A
Self Discharge	$\leq 3\%$ /per month
Connection In Series	Not Support
Connection In Parallel	Not Support

Discharge Current and Voltage Specifications

Max. Continuous Discharge Current	200A
Peak Discharge Current	300A(3~5s)
Recommend Low Voltage Disconnect	11.6~12.0V
BMS Low Voltage Cut-off	10.5V
BMS Reconnect Voltage	11.2~11.6V
Short Circuit Protection	Auto recover or charge release

Temperature Ranges

Discharge Temperature	-20~+65°C
Charge Temperature	-20~+45°C
Storage Temperature Range	-10~+45°C
BMS High Temperature Protection	70°C
Battery High Temperature Protection	60°C

MECHANICAL SPECIFICATIONS

Terminal Type	M8
Weight	4.2/4.5kg
Case Dimension(L*W*H)	190*125*170mm
Cell type / Chemistry	LiFePO4
Case type	ABS
Function	PCB Integrated Monitoring
BMS: low voltage, high voltage, over temperature	
over current, short-circuit protection, etc.	

Charge Current and Voltage Specifications

Max. Charge Current	40A
Recommended Charge Current	30A
Recommend Charge voltage	14.4V $\pm$ 0.2V
BMS Over Charge Voltage Cut-off	14.6V
BMS Reconnect Voltage	13.8V
Balancing Voltage	13.6~13.8V

Package Information

Package	Single package
Pieces per Pallet	112Pcs
Gross Weight per Pallet	524KG
Pallet Dimensions	1200*1100*1050mm
Certifications	CE,RoHS,UN38.3,MSDS