

## Introduction

MOTOMA M series LFP battery designed with 15 years or more service life for general purpose, which designed with advanced technology, built in intelligent BMS for more safe, with SOC design and communication protocol to match up with different brand inverters. Also motoma can supply customized upper computer software for BMS communication via RS232 to set parameters or read monitoring data.

### **Features**

- (A\*) Grade A+ Cells
  - Manufactured using the premium quality, fresh LiFePO4 raw materials for top-tier performance.
- (8000) High Cycle Efficiency Up to 8000 Cycles @ DOD 80%, ensuring a cost-effective
- LED Screen For Battery's parameters monitoring Multi-language colorful screen for clear monitoring of battery parameters, with easy control over settings.

- Integrated Safety Measures
  - Enhanced with a built-in Battery Management System (BMS) to prevent misuse.
- Heat Resilience Engineered for optimal
  - Engineered for optimal performance, even in extreme temperatures up to +60°C.
- Superior Safety
  - Designed with advanced safety features to guarantee secure usage and storage.

# **Applications**

◆ Power Generation System (Solar and Wind Power System, etc.)

ownership experience.

- Household Energy Storage System
- Auto Control System &ATM Machine
- ◆ Electronic Apparatus and Equipment
- ◆ Emergency Light & Emergency Backup
- Power Supply & Alarm / Security System
- ◆ Communication Power & DC Power
- Electric Power System (EPS)
- Uninterruptable Power System (UPS)

Smart BMS Compatible with multiple inverter brands.











### Certificates

























Up to 8000 Cycles @ DOD 80%



LED Screen For Real Time Monitoring



With State of Charge



Support high discharge current up to 200A



Max.15 pcs batteries in parallel

## **Technical Parameter**

Battery Model	M89S
Nominal Voltage	51.2V
Capacity	280Ah
Nominal Capacity	14.33kWh
Operating Voltage Range	43.2V~58.4V
Maximum Charging Current	200A
Maximum Discharging Current	200A
Charging Temperature Range	0°C~45°C
Discharging Temperature Range	-20°C~60°C
IP Level	IP20
Cell Cycle Life ( 0.5C/0.5C, RT 25°C )	8000 Cycles @ DOD 80%
Communication Mode	RS485 / CAN / RS232
Battery Dimensions ( LxWxH )	770*540*200mm
Battery Weight ( NW )	120.1 kg

# **Charge Performance**

Recommended Charge Current	30A
Maximum Charge Current	200A
Peak Charge Current	210A (1s)
Recommended Charge Voltage	57.6V
BMS Charge Cut-Off Voltage	58.4V (3.65V/Cell)
Reconnect Voltage	54.08V (3.38V/Cell)
Balancing Voltage	54.4V (3.4V/Cell)
Balancing Current	40mA

# **Packaging**

Packaging Type	1 Batteries / UN Wooden Box
Package Dimension ( LxWxH )	1008*629*372 mm
Package Weight ( GW )	149 KG



# **Discharge Performance**

Recommended Discharge Current	30A
Maximum Continuous Discharge Current	200A
Peak Discharge Current	210A (10s)
BMS Discharge Cut-Off Current	250A (500ms)
Recommended Low Voltage Disconnect	48V (3.0V/Cell)
BMS Discharge Cut-Off Voltage	43.2V (2.7V/Cell)
Reconnect Voltage	49.6V (3.1V/Cell)
Short Circuit Protection	250~500us



( Technical Support for Lifetime



**5 Years Warranty** 

