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.

- 6000 High Cycle Efficiency
 - More than 6000 Cycles @ DOD 80%, ensuring a costeffective ownership experience.
- 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.)
- 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

























More Than 6000 Cycles @ DOD 80%



LED Screen For Real Time Monitoring



With State of Charge



Support high discharge current up to 100A



Max.15 pcs batteries in parallel

Technical Parameter

Battery Model	M87UC
Nominal Voltage	51.2V
Capacity	100Ah
Nominal Capacity	5.12kWh
Operating Voltage Range	43.6V~58.4V
Maximum Charging Current	100A
Maximum Discharging Current	100A
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)	6000 Cycles @ DOD 80%
Communication Mode	RS485 / CAN / RS232
Battery Dimensions (LxWxH)	530*440*134.5 mm
Battery Weight (NW)	41.3 kg





Charge Performance

30A
100A
112A (3s)
57.6V
58.4V (3.65V/Cell)
54.08V (3.38V/Cell)
54.4V (3.4V/Cell)
100mA

Packaging

Packaging Type	8 Batteries / UN Wooden Box
Package Dimension (LxWxH)	1078*708*1096 mm
Package Weight (GW)	369.6 KG

Discharge Performance

Recommended Discharge Current	30A
Maximum Continuous Discharge Current	100A
Peak Discharge Current	110A (30s)
BMS Discharge Cut-Off Current	150A (3s)
Recommended Low Voltage Disconnect	48V (3.0V/Cell)
BMS Discharge Cut-Off Voltage	43.2V (1s)(2.7V/Cell)
Reconnect Voltage	<49.6V (3.1V/Cell)
Short Circuit Protection	250~500us



(Technical Support for Lifetime



5 Years Warranty

