

MOTOMA®

Power into the Future

200Ah
51.2V

LITHIUM IRON PHOSPHATE BATTERY M88PW

Introduction

The MOTOMA M Series LFP battery is an advanced energy solution designed to deliver a service life of 15 years or more, providing exceptional performance for a wide range of applications. With a lifespan of up to 8000 cycles, it ensures reliable and efficient energy storage for many years.

Equipped with a multi-language and colored touch LCD screen, the M Series allows users to monitor the battery status, access detailed reports, and fully control settings. Its intelligent BMS ensures safety, along with SOC design and a communication protocol compatible with various inverter brands.

Features

- Grade A+ Cells**
Manufactured using the premium quality, fresh LiFePO4 raw materials for top-tier performance.
- High Cycle Efficiency**
More than 6000 Cycles @ DOD 80%, ensuring a cost-effective ownership experience.
- Advanced Touch Screen**
Multi-language colorful touch screen for clear monitoring of battery parameters, with easy control over settings.
- Extended Durability**
Enjoy a longer lifespan with our low-maintenance, stable chemistry batteries.
- 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

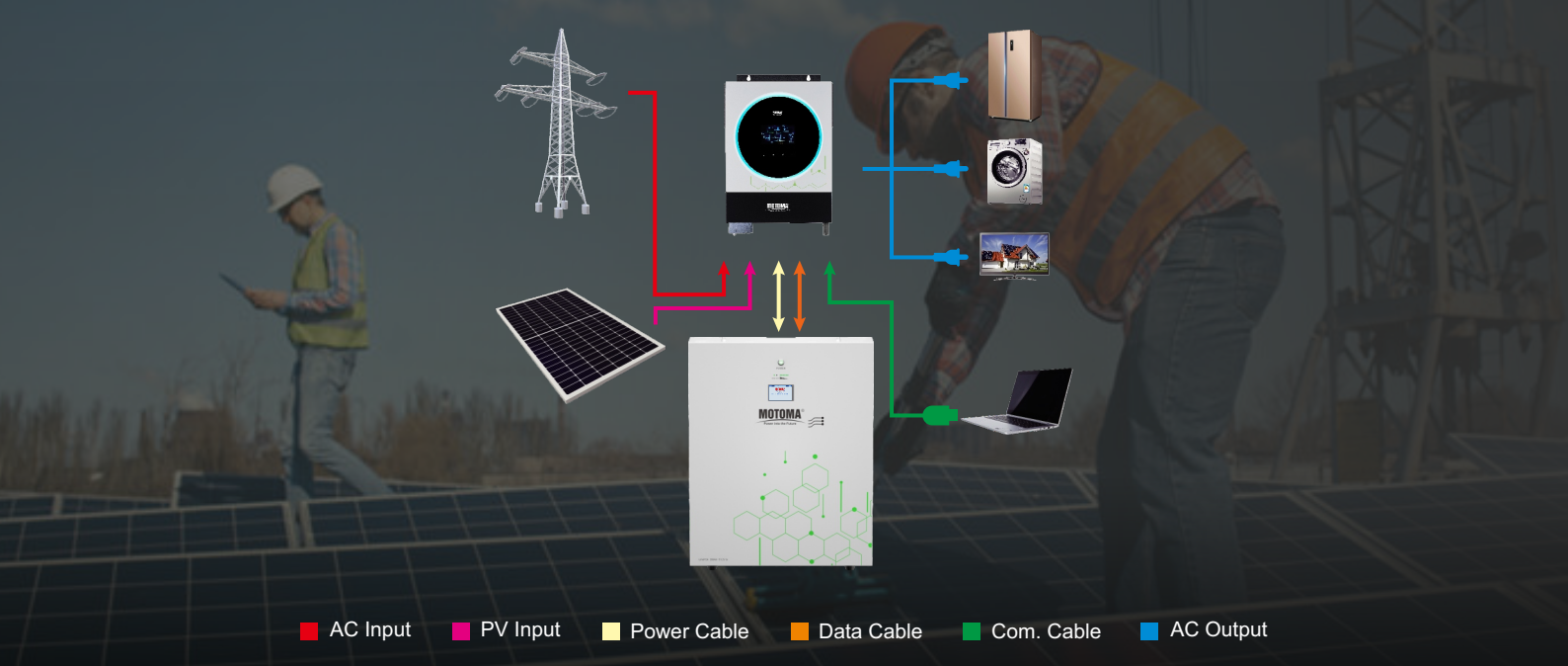
- ◆ Power Generation System (Solar and Wind Power System, etc.)
- ◆ Household Energy Storage System
- ◆ Auto Control System & ATM Machine
- ◆ Electronic Apparatus and Equipment
- ◆ Emergency Light & Emergency Backup
- ◆ Power Supply & Alarm / Security System
- ◆ Communication Power & DC Power
- ◆ Electric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

Smart BMS Compatible with multiple inverter brands.



Certificates





■ AC Input
 ■ PV Input
 ■ Power Cable
 ■ Data Cable
 ■ Com. Cable
 ■ AC Output



Grade A⁺ Cells

6000

More Than 6000 Cycles
@ DOD 80%



Multi-language
colorful touch LCD screen



With State of Charge



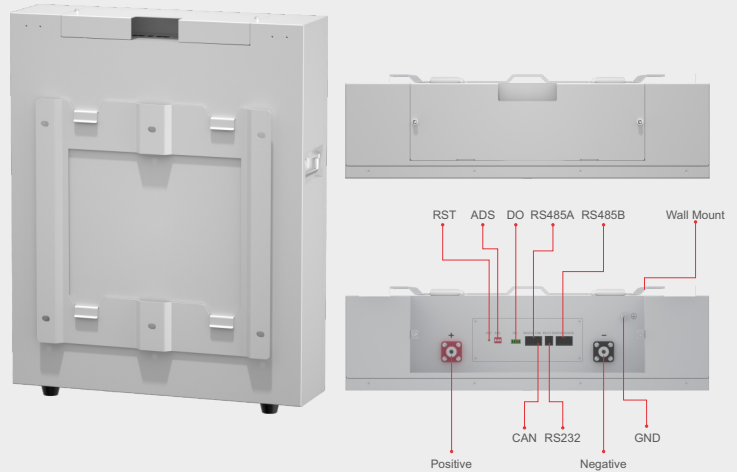
Support high discharge
current up to 150A



Max. 15 pcs batteries
in parallel

Technical Parameter

Battery Model	M88PW
Nominal Voltage	51.2V
Capacity	200Ah
Nominal Capacity	10.24kWh
Operating Voltage Range	43.2V~58.4V
Maximum Charging Current	150A
Maximum Discharging Current	150A
Charging Temperature Range	0°C~45°C
Discharging Temperature Range	-20°C~60°C
IP Level	IP20
Cell Cycle Life	6000 Cycles @ DOD 80%
Communication Mode	RS485 / CAN / RS232
Test Condition	25±2°C , 0.5C/0.5C , EOL 70%
Battery Dimensions (LxWxH)	720*610*160 mm
Battery Weight (NW)	90 kg



Charge Performance

Recommended Charge Current	30A
Maximum Charge Current	150A
Peak Charge Current	160A (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

Discharge Performance

Recommended Discharge Current	30A
Maximum Continuous Discharge Current	150A
Peak Discharge Current	160A (10s)
BMS Discharge Cut-Off Current	200A (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

Packaging

Packaging Type	8 Batteries / UN Wooden Box
Package Dimension (LxWxH)	875x1345x1125 mm
Package Weight (GW)	834 KG



Technical Support for Lifetime



5 Years Warranty