

M87PW PRO

LITHIUM IRON PHOSPHATE BATTERY



100Ah
51.2V

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.

Smart BMS Compatible with multiple inverter brands.



MOTOMA®

Power into the Future



Introduction

The MOTOMA M PRO 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 PRO 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.

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)
- ◆ Uninterruptible Power System (UPS)

Certificates



MOTOMA®
Power into the Future

Technical Parameter

Battery Model	M87PW PRO
Nominal Voltage	51.2V
Capacity	100Ah
Nominal Capacity	5.12kWh
Operating Voltage Range	43.2V~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)	420*610*200 mm
Battery Weight (NW)	52 kg

Charge Performance

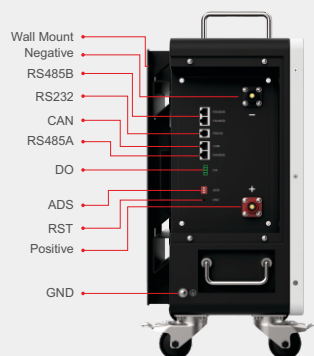
Recommended Charge Current	30A
Maximum Charge Current	100A
Peak Charge Current	112A (3s)
Recommended Charge Voltage	57.6V
BMS Charge Cut-Off Voltage	58.4V (3.65V/Cell)
Reconnect Voltage	54.08V (3.38V/Cell)
Balancing Voltage	54.4V (3.4V/Cell)
Balancing Current	40mA

Discharge Performance

Recommended Discharge Current	30A
Maximum Continuous Discharge Current	100A
Peak Discharge Current	120A (10s)
BMS Discharge Cut-Off Current	180A (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	6 Batteries / UN Wooden Box
Package Dimension (LxWxH)	1268x734x1092 mm
Package Weight (GW)	399.9 KG



A⁺

Grade A⁺ Cells

6000

More Than 6000 Cycles
@ DOD 80%



Multi-language
colorful touch LCD screen

SOC

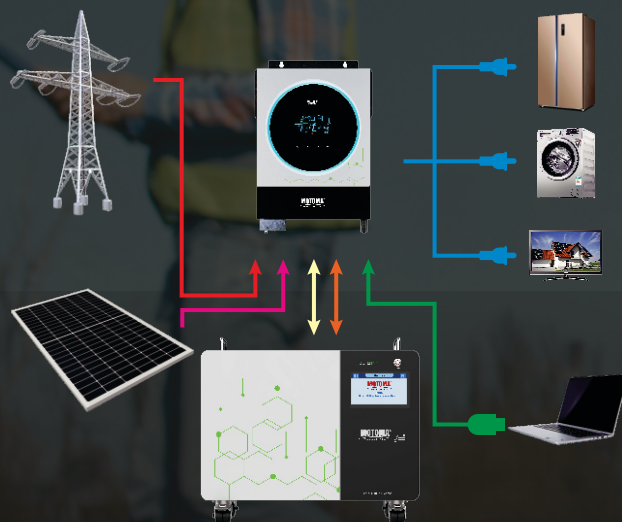
With State of Charge



Support high discharge
current up to 100A



Max. 15 pcs batteries
in parallel



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



Technical Support for Lifetime



7 Years Warranty