

MOTOMA®

Power into the Future

100Ah
51.2V

LITHIUM IRON PHOSPHATE BATTERY M84UE



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

- 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.
- Superior Safety**
Designed with advanced safety features to guarantee secure usage and storage.
- 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.

Applications

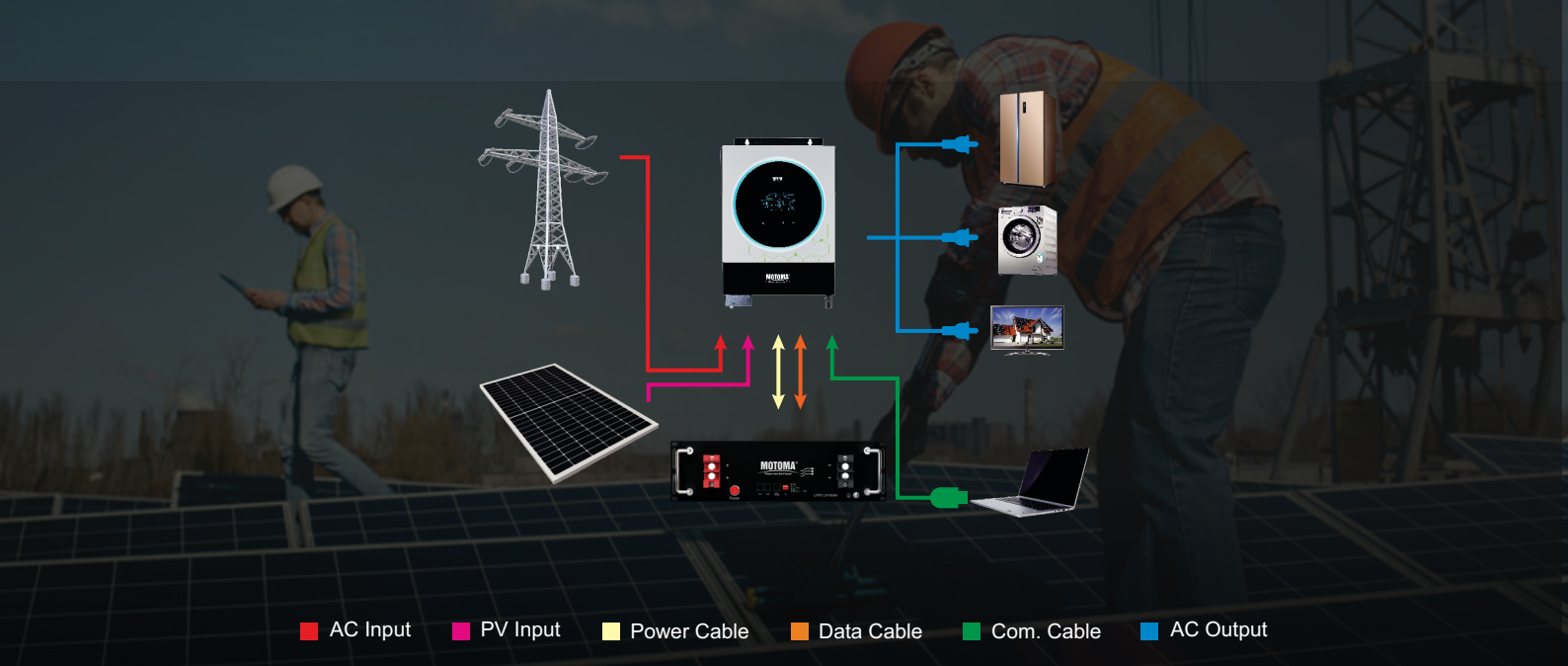
- ◆ Power Generation System (Solar and Wind Power System, etc.)
- ◆ Household Energy Storage System
- ◆ Auto Control System & ATM Machine
- ◆ Electronic Apparatus and Equipment
- ◆ Emergency Light & Emergency Backup
- ◆ Power Supply & Alarm / Security System
- ◆ Communication Power & DC Power
- ◆ Electric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



With State of Charge



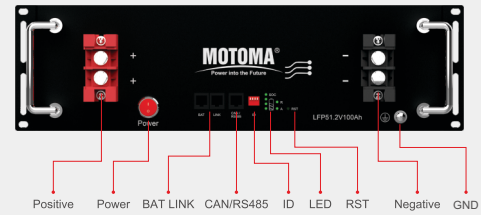
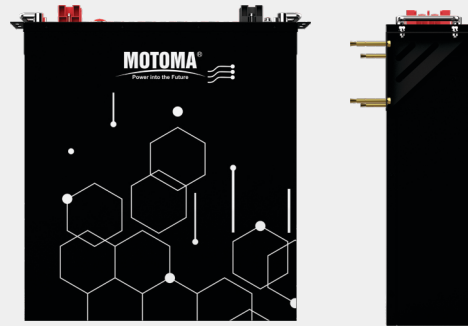
Support high discharge
current up to 100A



Max.15 pcs batteries
in parallel

Technical Parameter

Battery Model	M84UE
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	6000 Cycles @ DOD 80%
Communication Mode	RS485 / CAN / RS232
Test Condition	25±2°C , 0.2C/0.2C , EOL 70%
Battery Dimensions (LxWxH)	513*484*135 mm
Battery Weight (NW)	43.18 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	54.8V (3.38V/Cell)
Balancing Voltage	54.4V (3.4V/Cell)
Balancing Current	100mA

Discharge Performance

Recommended Discharge Current	30A
Maximum Continuous Discharge Current	100A
Peak Discharge Current	105A (30s)
BMS Discharge Cut-Off Current	122A (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

Packaging

Packaging Type	16 Batteries / UN Wooden Box
Package Dimension (LxWxH)	1048*1148*1049 mm
Package Weight (GW)	762.5 KG



Technical Support for Lifetime



5 Years Warranty