

# MOTOMA®

Power into the Future

200Ah  
25.6V

## LITHIUM IRON PHOSPHATE BATTERY M68UC



### 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**  
Up to 6000 Cycles @ DOD 80% , ensuring a cost-effective 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

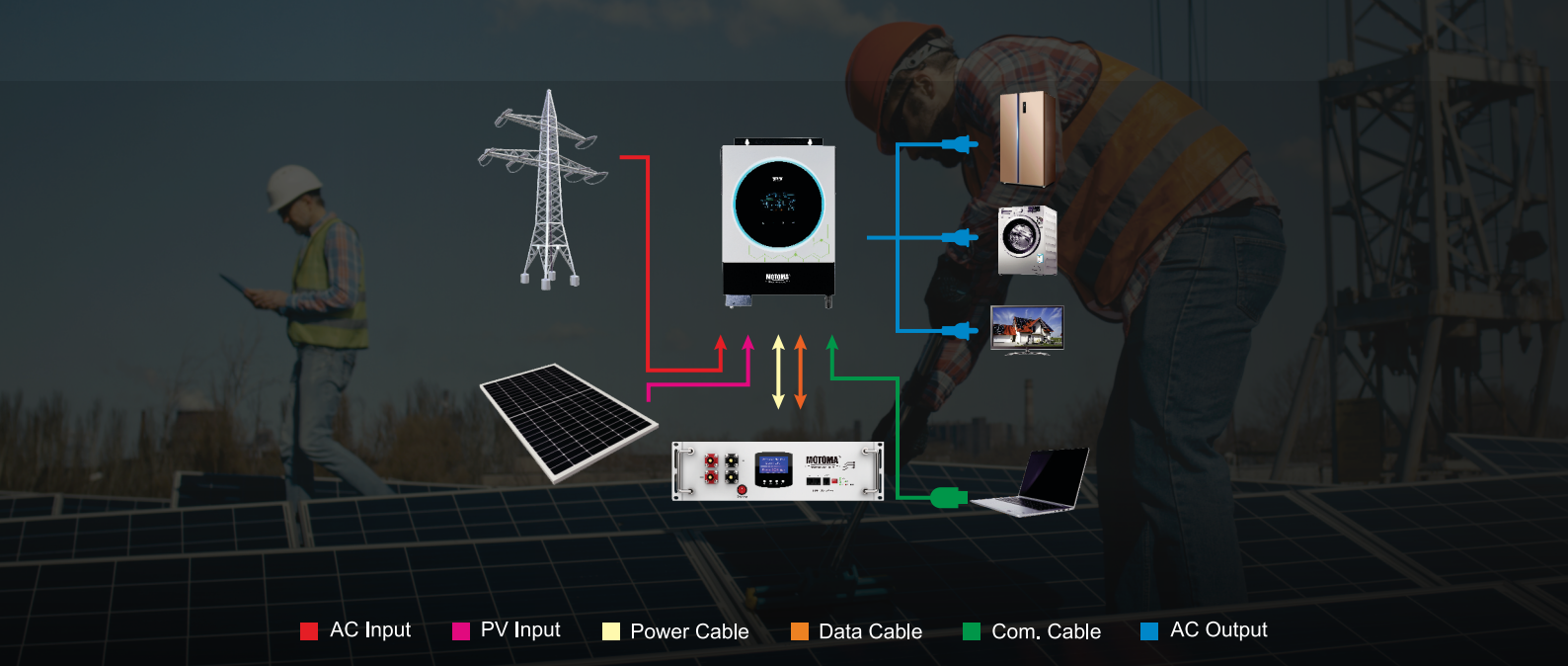
- ◆ Power Generation System (Solar and Wind Power System, etc.)
- ◆ Household Energy Storage System
- ◆ Auto Control System & ATM Machine
- ◆ Electronic Apparatus and Equipment
- ◆ Emergency Light & Emergency Backup
- ◆ Power Supply & Alarm / Security System
- ◆ Communication Power & DC Power
- ◆ Electric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

Smart BMS Compatible with multiple inverter brands.



### Certificates





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



Grade A<sup>+</sup> Cells

6000

Up to 6000 Cycles  
@ DOD 80%



LED Screen For Real  
Time Monitoring



With State of Charge



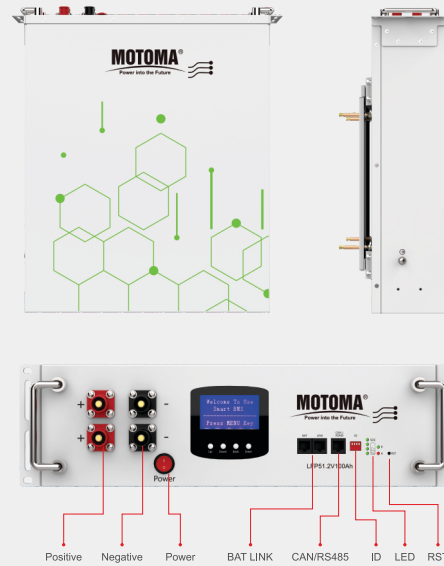
Support high discharge  
current up to 150A



Max.15 pcs batteries  
in parallel

## Technical Parameter

|                                        |                     |
|----------------------------------------|---------------------|
| Battery Model                          | M68UC               |
| Nominal Voltage                        | 25.6V               |
| Capacity                               | 200Ah               |
| Nominal Capacity                       | 5.12kWh             |
| Operating Voltage Range                | 21.6V~29.2V         |
| 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 ( 0.5C/0.5C, RT 25°C ) | 6000 time           |
| Communication Mode                     | RS485 / CAN / RS232 |
| Battery Dimensions ( LxWxH )           | 530*440*134.5 mm    |
| Battery Weight ( NW )                  | 41.3 kg             |



## Charge Performance

|                            |                     |
|----------------------------|---------------------|
| Recommended Charge Current | 30A                 |
| Maximum Charge Current     | 150A                |
| Peak Charge Current        | 162A (3s)           |
| Recommended Charge Voltage | 28.8V               |
| BMS Charge Cut-Off Voltage | 29.2V (3.65V/Cell)  |
| Reconnect Voltage          | 27.04V (3.38V/Cell) |
| Balancing Voltage          | 27.2V (3.4V/Cell)   |
| Balancing Current          | 100mA               |

## Discharge Performance

|                                      |                   |
|--------------------------------------|-------------------|
| Recommended Discharge Current        | 30A               |
| Maximum Continuous Discharge Current | 150A              |
| Peak Discharge Current               | 155A (30s)        |
| BMS Discharge Cut-Off Current        | 172A (3s)         |
| Recommended Low Voltage Disconnect   | 24V (3.0V/Cell)   |
| BMS Discharge Cut-Off Voltage        | 21.6V (2.7V/Cell) |
| Reconnect Voltage                    | 24.8V (3.1V/Cell) |
| Short Circuit Protection             | 250~500us         |

## Packaging

|                             |                             |
|-----------------------------|-----------------------------|
| Packaging Type              | 8 Batteries / UN Wooden Box |
| Package Dimension ( LxWxH ) | 1078*708*1096 mm            |
| Package Weight ( GW )       | 363.6 KG                    |



Technical Support for Lifetime



5 Years Warranty