



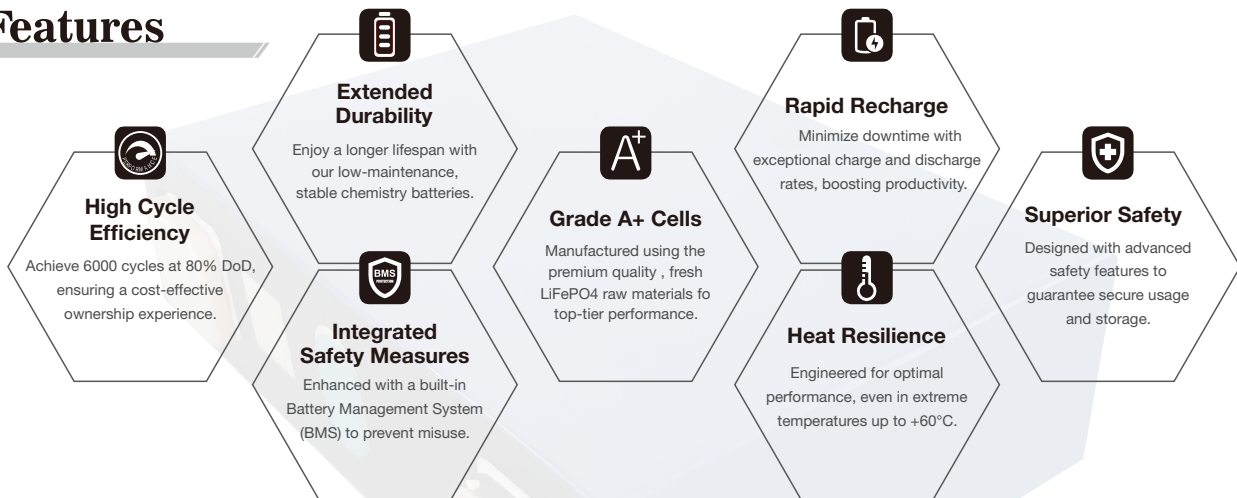
LITHIUM IRON PHOSPHATE BATTERY (LiFePO4) (M87U)

100A
51.2V

Introduction

Lithium Iron Phosphate can be used in most applications that use Lead Acid, GEL or AGM type batteries.

Features



Technical Parameter

Battery Model	M87U
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)	6000Cycles @ DOD 80% / 8000 Cycles @ DOD 50%
Communication Mode	RS485 / CAN
Battery Dimensions (LxWxH)	530*440*132 mm
Battery Weight (NW)	47.7 kg



Built-in intelligent BMS for battery protection



Max.10pcs batteries in parallel



Equipment with RS485 / CAN communication



Efficient & long-lasting service life

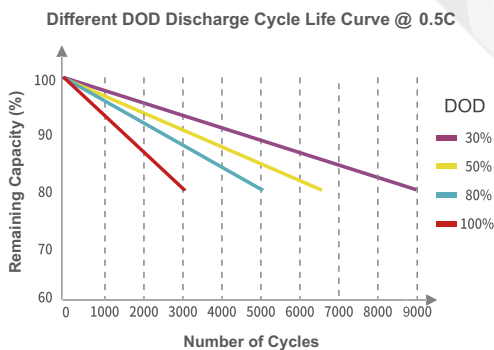
Charge Performance

Recommended Charge Current	30A
Maximum Charge Current	100A
Recommended Charge Voltage	57.6V
BMS Charge Cut-Off Voltage	>58.4V (3.65V/Cell)
Reconnect Voltage	<57.6V (3.6V/Cell)
Balancing Voltage	>54.08V (3.38V/Cell)
Maximum Cells in Series	16(*Consult MOTOMA)

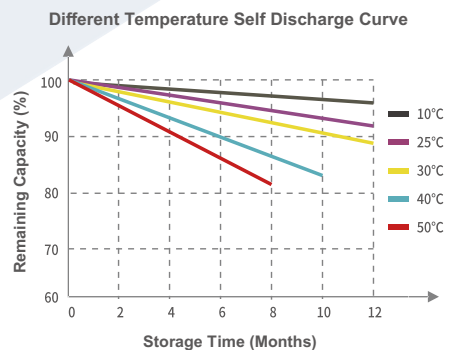
Discharge Performance

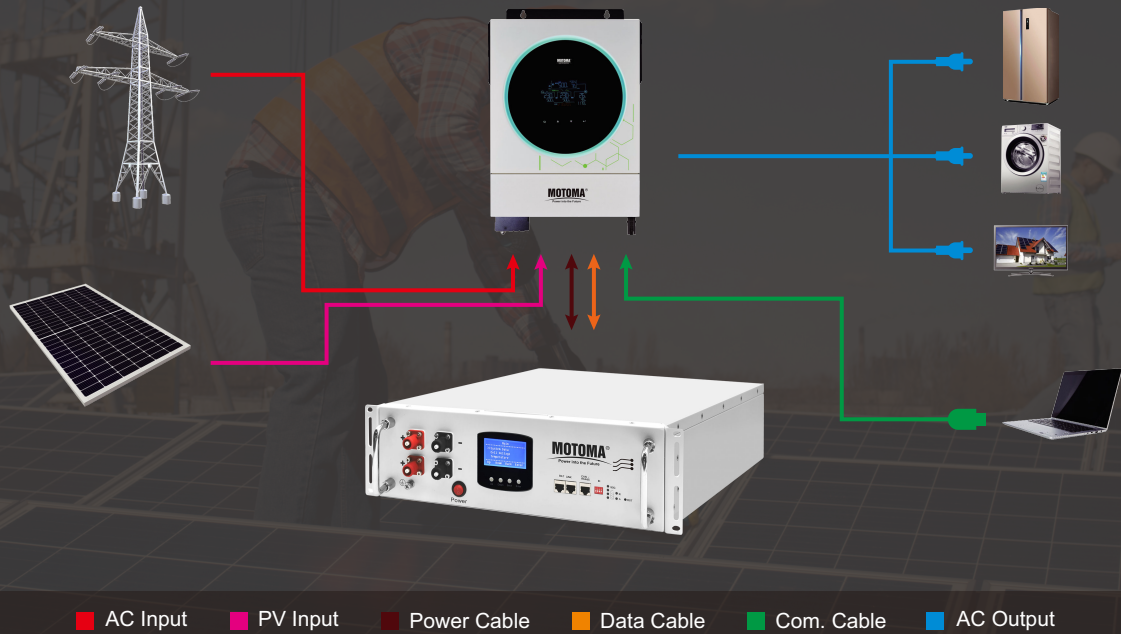
Maximum Continuous Discharge Current	100A
Peak Discharge Current	110A (1s)
BMS Discharge Cut-Off Current	150A (100ms)
Balancing open voltage	54.4V (3.40V/Cell)
Recommended Low Voltage Disconnect	48V(3.0V/Cell)
BMS Discharge Cut-Off Voltage	43.2V (1s)(2.7V/Cell)
Reconnect Voltage	<49.6V (3.1V/Cell)
Short Circuit Protection	250~500 us

Cycle Life Curve



Self Discharge Characteristics Curve





Applications

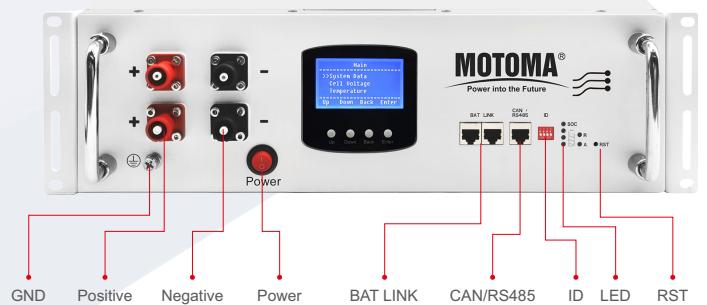
- ◆ Solar Storage
- ◆ Switching applications and more
- ◆ Base transceiver station
- ◆ Communication equipments
- ◆ Central office
- ◆ Telecommunication systems
- ◆ Electronic cash registers
- ◆ Microprocessor based office machine
- ◆ UPS



Packaging

Package Dimension (LxWxH)	UN Carton 660x580x220 mm
Package Weight (GW)	50 KG

Certificates



Smart BMS supports communication with different brand of hybrid inverter :

