



## LITHIUM IRON PHOSPHATE BATTERY ( LiFePO4 Battery Pack )

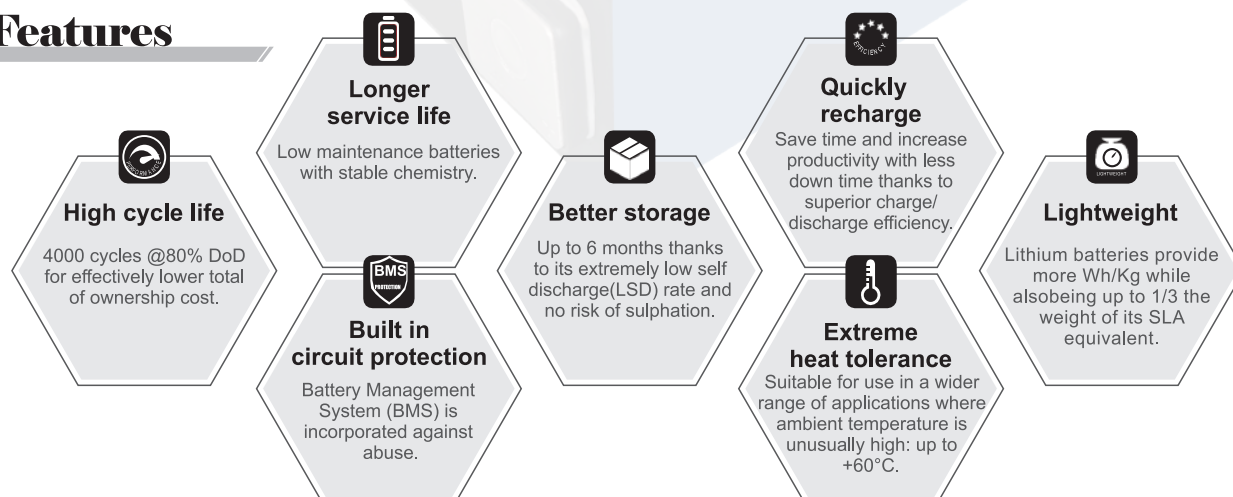
### Introduction

MOTOMA BLUE series LFP battery designed with 10 years or more service life for general purpose, which designed with advanced technology, built in intelligent BMS for more safe, with SOC design.

### Technical Parameter

Battery Model	LFP 25.6V120Ah
Nominal voltage	25.6V
Capacity	120Ah
Nominal capacity	3.072kWh
Operating voltage range	29.2V to 20V
Maximum charging current	100A
Maximum discharging current	100A
Charging temperature range	0°C~45°C
Discharging temperature range	-20°C~60°C
Dimension	522x240x218mm
Weight	27Kg
IP level	IP67
Cycle life @ DOD 80%	4000 times
Terminal type	F10

### Features





## BMS

Built-in intelligent BMS for battery protection



Max.2pcs batteries in parallel



Efficient & long-lasting service life

## Applications

- ◆ Used alone
- ◆ Eco-friendly and long lifespan
- ◆ Low self-discharge
- ◆ High energy density
- ◆ Excellent performance in all the operating temperature
- ◆ Automatic protection with battery management system internally  
**Over charge, over discharge, Over load, Over short circuit protection**
- ◆ industrial leading packing technology ensures the cells have a precise conformance and astable performance

## Dimensions

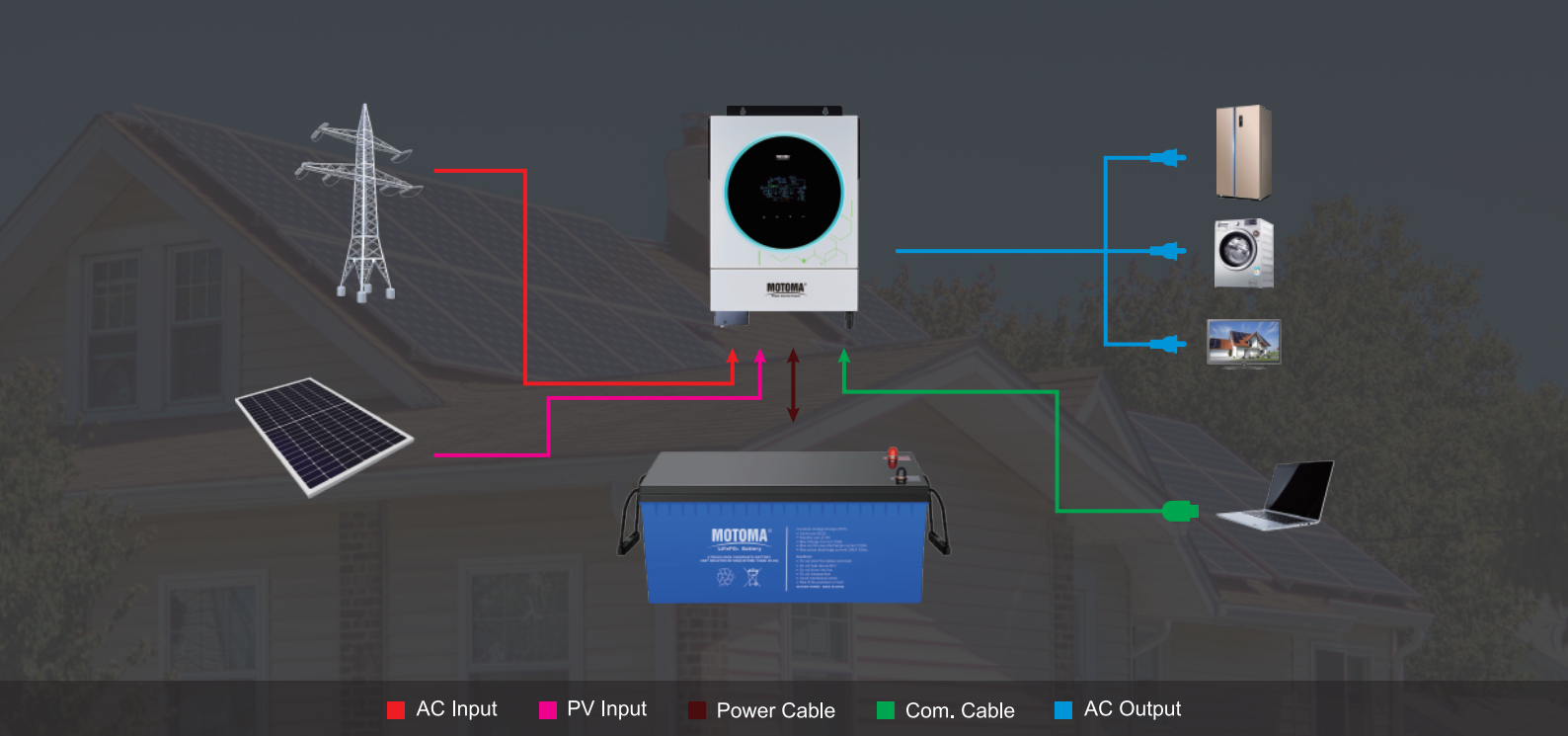
Length	522±1mm (20.55 inches)
Width	240±1mm (9.45 inches)
Height	218±1mm (8.58 inches)

## Cautions

- ◆ Avoid short circuit.
- ◆ Do not disassemble.
- ◆ Do not heat above 60°C.
- ◆ Avoid mechanical shock.
- ◆ Risk of fire, explosion, or burn.
- ◆ Do not throw into fire.







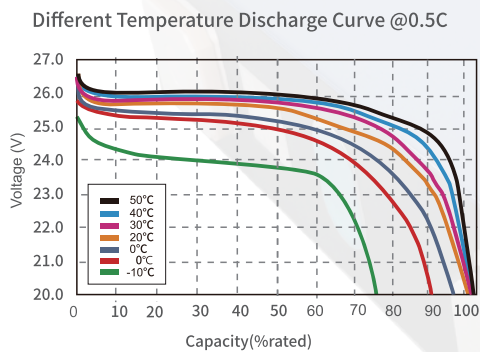
## Charge Performance

Recommended Charge Current	20A
Maximum Charge Current	100A
Peak Charge Current	125A/3S
Recommended Charge Voltage	28.8V
BMS Charge Cut-Off Voltage	< 29.2V (3.65V/Cell)
Reconnect Voltage	> 28V (3.5V/Cell)
Balancing Voltage	< 28V (3.5V/Cell)
Balancing Current	150mA

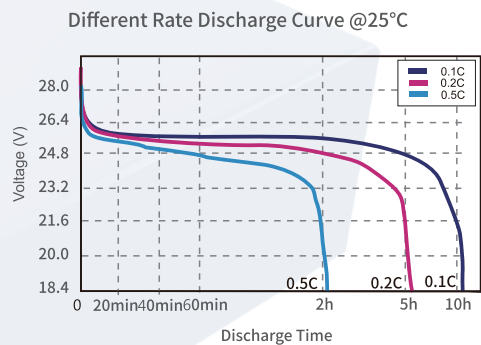
## Discharge Performance

Recommended Discharge Current	20A
Maximum Continuous Discharge Current	100A
Peak Discharge Current	105A/20S
BMS Discharge Cut-Off Current	210A/3S
Recommended Low Voltage Disconnect	24V (3.0V/Cell)
BMS Discharge Cut-Off Voltage	19.2V (2.4V/Cell)
Reconnect Voltage	> 24V (3.0V/Cell)
Short Circuit Protection	500~1000uS

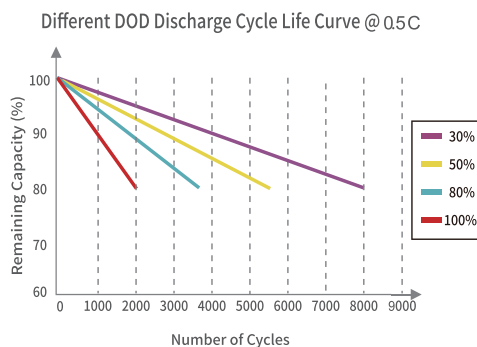
### Different Temperature Discharge Curve



### Different Rate Discharge Curve



### Cycle Life Curve



### Self Discharge Characteristics Curve

