

# Lithium Iron Phosphate (LiFePO4) Battery

## MBL12-150DIN-BP

## 12.8V150AH 1920Wh

### Features of LiFePO4 Battery

**Longer Cycle Life**

LiFePO4 batteries would be is five times than SLA batteries on cycle life

**High Power & Light weight**

LiFePO4 batteries performance twice power of SLA batteries, while half weight helpful for transport and installation

**Intelligent management control**

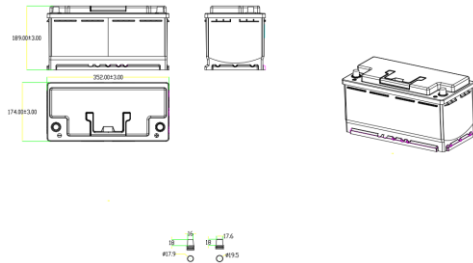
Intelligent BMS system covered by LFP batteries to ensure that batteries work on safety and perfect condition

**Lower Self-discharge rate**

Lower Self-discharge rate to guarantee LFP batteries be stored more longer than SLA batteries



### Physical Dimension



### Applications

- Caravan, RV, camping
- UPS (replacement of SLA batteries)
- Marine, golf cart
- Solar, wind system
- PV, solar light

### Electrical Characteristics

Chemistry	LiFePO4
Nominal Voltage	12.8V
Nominal Capacity	150Ah (C5,25°C)
Energy	1920Wh
Internal Resistance	≤10 mΩ
Cycle Life	>3500 cycles @1C 70%DOD
Months Self Discharge	<3%
Efficiency of Charge	100% @0.5C
Efficiency of Discharge	96-99% @1C

### Standard Charge

Charge Voltage	14.6±0.2V
Charge Mode	0.2C to 14.6V, then 14.6V charge current to 0.02C (CC/CV)
Charger Current	75A
Max. Charge Current	150A
Charge Cut-off Voltage	14.6V±0.2V

### Standard Discharge

Rated Discharge Current	75A
Max Discharge Current	150A
Max. Pulse Current	450A(<3s)
Discharge Cut-off Voltage	10V
Charge Temperature	0 °C to 45 °C (32Fto 113F) @60±25% Relative Humidity
Discharge Temperature	-20 °C to 60 °C (-4F to 140F) @60±25% Relative Humidity
Storage Temperature	0 °C to 40 °C (32Fto 104F) @60±25% Relative Humidity
Water Dust Resistance	IP65

### Mechanical

BMS	4S/4P SMART Bluetooth / Pre-heat
Plastic Case	ABS (DIN case)
Dimensions (in./mm.)	353x175x190 mm
Weight (lbs./kg.)	15kg(33.07lbs)
Terminal	SAE

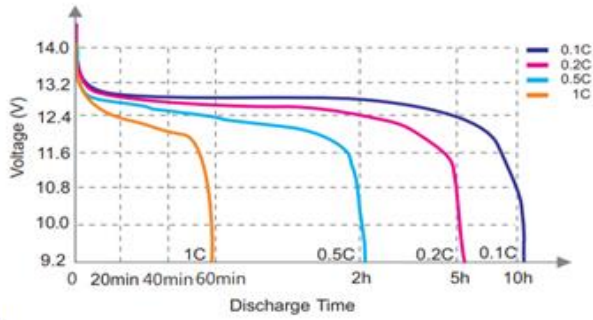
# Lithium Iron Phosphate (LiFePO4) Battery

MBL12-150DIN-BP

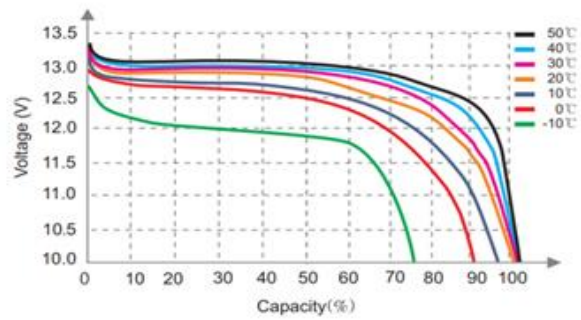
12.8V150AH

1920Wh

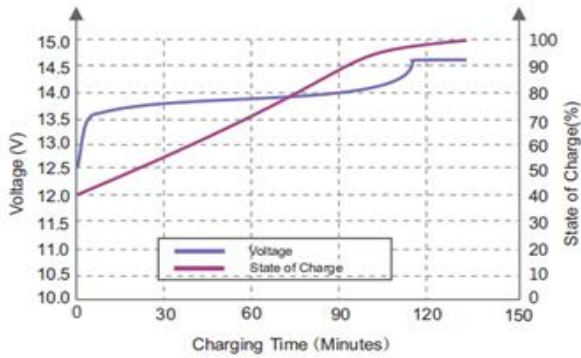
Different Rate Discharge Curve (25°C)



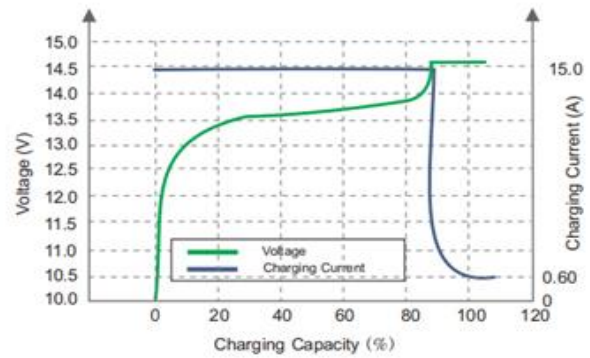
Different Temperature Discharge Curve(0.5C)



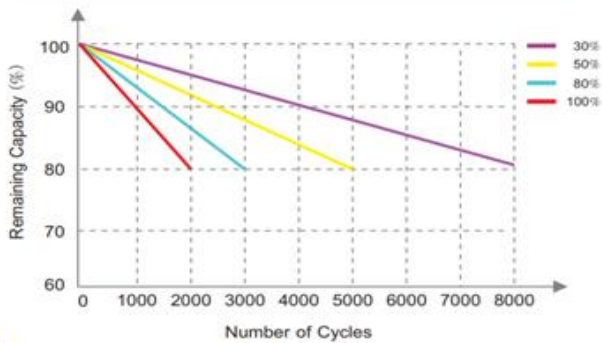
State of Charge Curve (0.5C, 25°C)



Charging Characteristics(0.5C, 25°C)



Different DOD Discharge Cycle Life Curve(1C)



Different Temperature Self Discharge Curve

