# Lithium Iron Phosphate (LiFePO4) Battery

### MBL48-100CP

## 51.2V100AH 5120Wh

#### **Features of LiFePO4 Battery**

#### Longer Cycle Life

LiFePO4 batteries have a cycle live five times higher than that of SLA batteries

#### High Power & Light weight

LiFePO4 batteries have twice the power of SLA batteries, while half the 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
520 00		UPS (replacement of SLA batteries)
		Marine, golf cart
520.00		Solar, wind system
		PV, solar light
Electrical Characteristics	Chemistry	LiFePO4
	Nominal Voltage	51.2V
	Nominal Capacity	100Ah (C5,25°C)
	Energy	5120Wh
	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	58.4±0.2V
	Charge Mode	0.2C to 58.4V, then 58.4V charge current to 0.02C (CC/CV)
	Charger Current	50A
	Max. Charge Current	100A
	Charge Cut-off Voltage	58.4V±0.2V
Standard Discharge	Rated Discharge Current	50A
	Max Discharge Current	100A
	Max. Pulse Current	300A(<3s)
	Discharge Cut-off Voltage	40V
	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 / Pre-heat
	Communication function	CAN BUS/NMEA 2000
	Plastic Case	ABS
	Dimensions (in./mm.)	522x267x218 mm
	Weight (lbs./kg.)	38.3kg(84.44lbs)
	Terminal	M8

