Lithium Iron Phosphate (LiFePO4) Battery

MBL12-100DIN-BP

12.8V100AH 1280Wh

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 Caravan, RV, camping UPS (replacement of SLA batteries) Marine, golf cart Solar, wind system PV, solar light Chemistry Nominal Voltage Nominal Capacity Energy LiFePO4 Nominal Capacity Energy 1280Wh

	18 174	• PV, Solar light
Electrical Characteristics	Chemistry	LiFePO4
	Nominal Voltage	12.8V
	Nominal Capacity	100Ah (C5,25°C)
	Energy	1280Wh
	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	50A
	Max. Charge Current	100A
	Charge Cut-off Voltage	14.6V±0.2V
Standard Discharge	Rated Discharge Current	50A
	Max Discharge Current	100A
	Max. Pulse Current	300A(<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.)	10kg(22.05lbs)
	Terminal	SAE

