

Lithium Iron Phosphate (LiFePO4) Battery

MP01 48100 (LFP 51.2V 100Ah)



Typical Applications

- Solar/Wind Energy Storage
- Back-up Power for UPS/ EPS
- Marine Boats
- Household Energy Storage

Electrical Characteristics

Nominal Voltage	51.2V
Nominal Capacity	100Ah
Minimum Capacity	100Ah
Energy	5120Wh
Cycle Life	>2000 cycles @0.5C 100%DOD
Months Self Discharge	<3%
Efficiency of Charge	100% @0.5C
Efficiency of Discharge	96~99% @0.5C
BMS Functions	Over charge, over discharge, over current, short circuit and temperature protection
Maximum Modules in parallel	1pcs

Standard Charge and Discharge

Charge Voltage	57.6-58.4V
Charge Mode	0.2C to 58.4V, then 58.4V,charge current to 0.02C (CC/CV)
Charge Current	20A
Max. Charge Current	100A
Charge Voltage	57.6-58.4V
Max Continuous Discharge Current	100A (Can be customized)
Peak Discharge Current	115A 1-3S
Discharge Cut-off Voltage	40V±0.5V

Mechanical

Shell Material	SPCC
Approx. Dimensions	L630Xw330xH470 (H1 546) mm
Approx. Weight	73kgs
Terminal Type	Terminal 100A

Environmental

Charge Temperature	0 °C to 55 °C (32F to 131F) @60±25% Relative Humidity
Discharge Temperature	-20 °C to 60 °C (-4F to 140F) @60±25% Relative Humidity
Storage Temperature	-20 °C to 45 °C (-4F to 113F) @60±25% Relative Humidity
IP Class	IP20

Inverter

Input Voltage	220 VAC 50HZ
Inverter power	4000W Max
Highest conversion rate	93%
Waveform	Pure sine wave
Solar panel power	3000W
Solar charging current	60A
Charging current	25A
Open circuit voltage	60-115V DC , Max145V DC
Solar Charge	Built-in MPPT

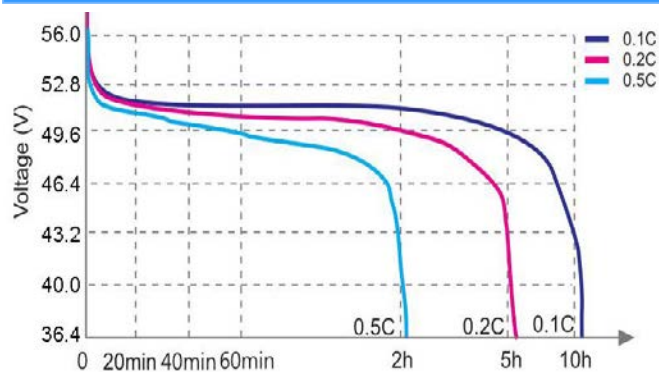
Dimensional Specifications



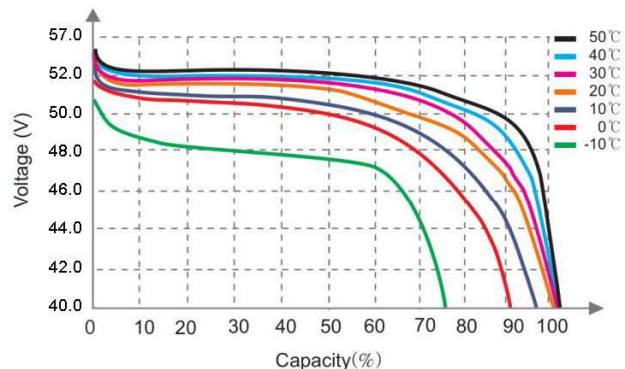
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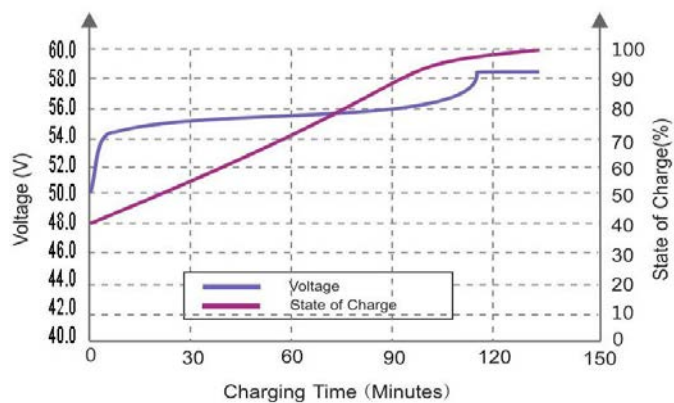
Different Rate Discharge Curve (25°C)



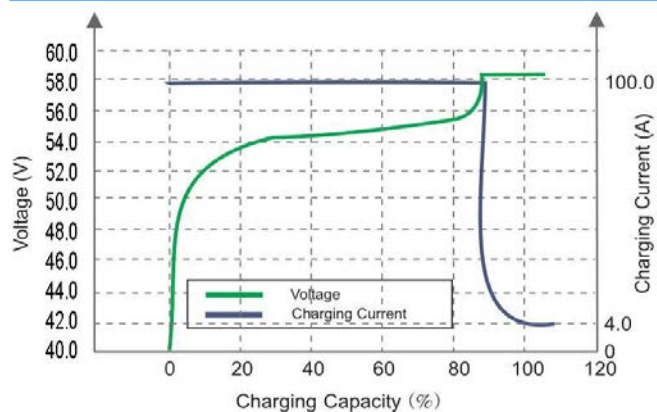
Different Temperature Discharge Curve (0.5C)



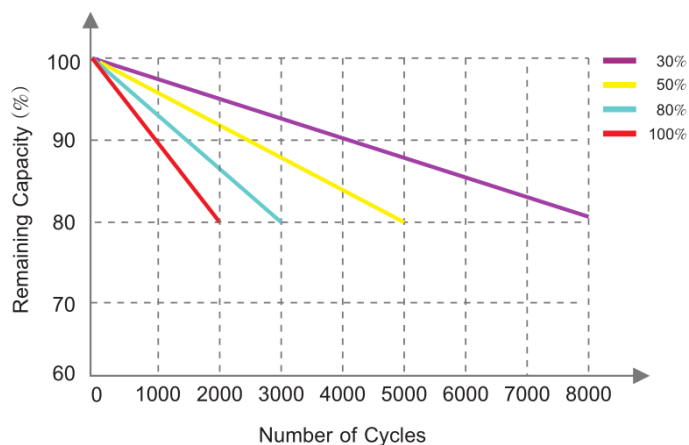
State of Charge Curve (0.5C, 25°C)



Charging Characteristics (0.5C, 25°C)



Different DOD Discharge Cycle Life Curve (0.5C)



Different Temperature Self Discharge Curve

