

### Features of LiFePO4 Battery

**Longer Cycle Life:** Offers up to 20 times longer cycle life and five times longer float/calendar life than lead acid battery, helping to minimize replacement cost and reduce total cost of ownership.

**Lighter Weight:** About 40% of the weight of a comparable lead acid battery. A 'drop in' replacement for lead acid batteries.

**Higher Power:** Delivers twice power of lead acid battery, even high discharge rate, while maintaining high energy capacity.

**Wider Temperature Range:** -20 C~60 C.

**Superior Safety:** Lithium Iron Phosphate chemistry eliminates the risk of explosion or combustion due to high impact, overcharging or short circuit situation.

### 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	0 °C to 45 °C (32F to 113F) @60±25% Relative Humidity
IP Class	IP30

### Mechanical

Metal Box	SPCC
Approx. Dimensions	L482 ( L1 442 ) xW440xH177.5mm
Approx. Weight	48kgs
Terminal Type	M6 ( ++/-- )

### Cell

Type	LiFePO4 Battery
Cell Model	LF48174133-100AH
Nominal Capacity	100Ah @0.5C 100%DOD
Nominal Voltage	3.2V
Approx. Dimensions	L175xT49.5xH133mm
Approx. Weight	2.3kgs

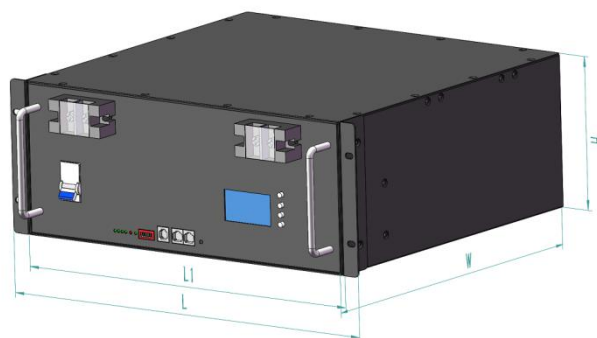
### Electrical Characteristics

Nominal Voltage	51.2V
Nominal Capacity	100Ah
Minimum Capacity	100Ah
Energy	5120Wh
Cycle Life	>4000 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
Communication	RS485/RS232
Maximum parallel mode	15 pcs

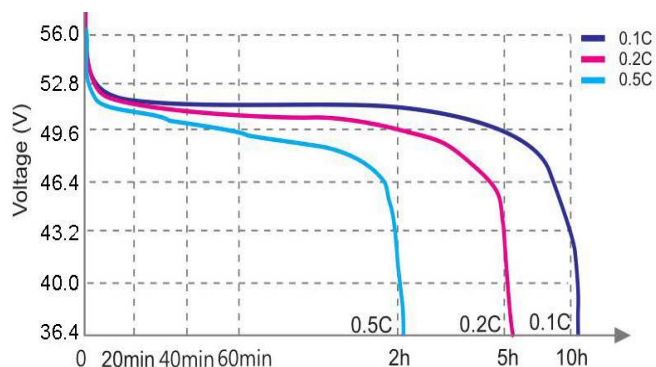
### Standard Charge and Discharge

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
Max Continuous Discharge Current	100A
Peak Discharge Current	110A 5-10S
Discharge Cut-off Voltage	40V±0.5V

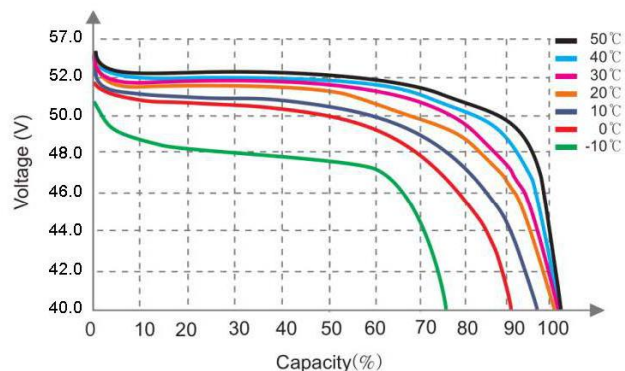
### Dimensional Specifications



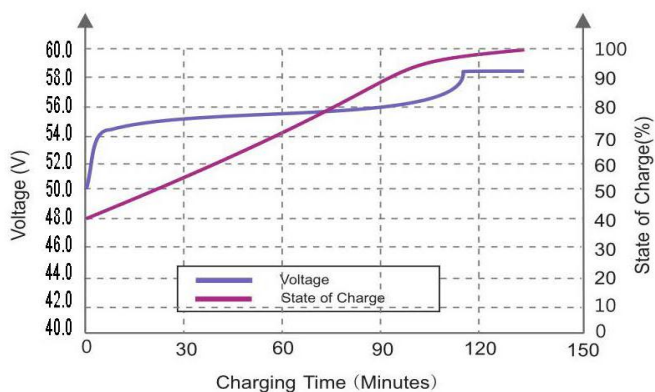
**Different Rate Discharge Curve (25°C)**



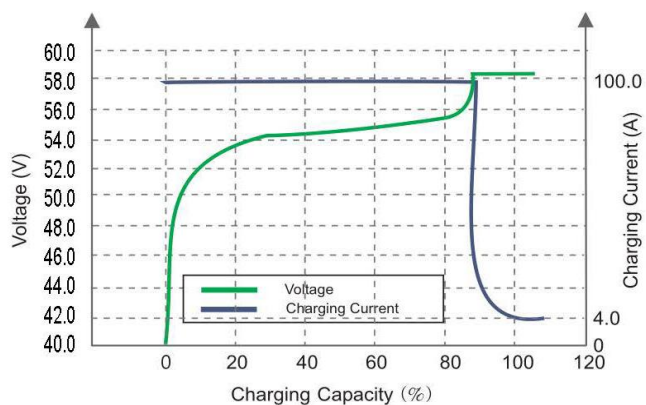
**Different Temperature Discharge Curve (0.5C)**



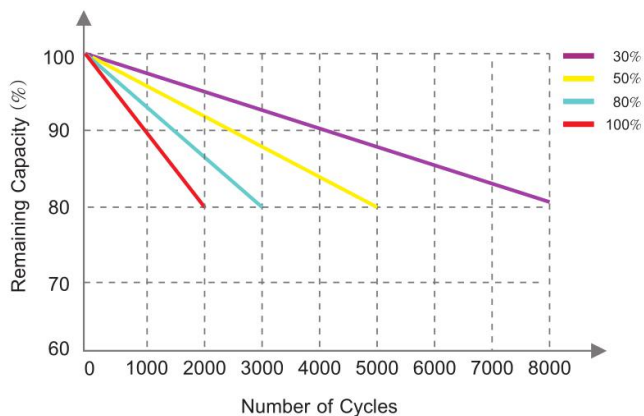
**State of Charge Curve (0.5C, 25°C)**



**Charging Characteristics (0.5C, 25°C)**



**Different DOD Discharge Cycle Life Curve (0.5C)**



**Different Temperature Self Discharge Curve**

