

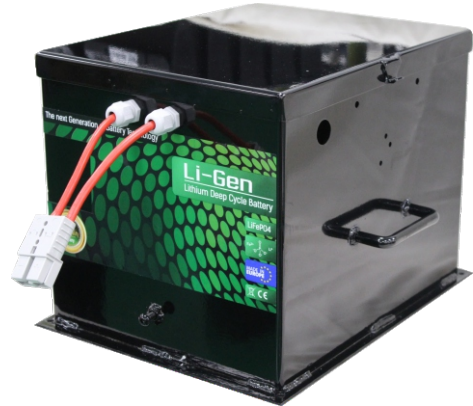
Li-Gen[®] The Next Generation of Battery Technology

Lithium Iron Phosphate (LiFePO4) Battery

PN: Li48v-100

Features

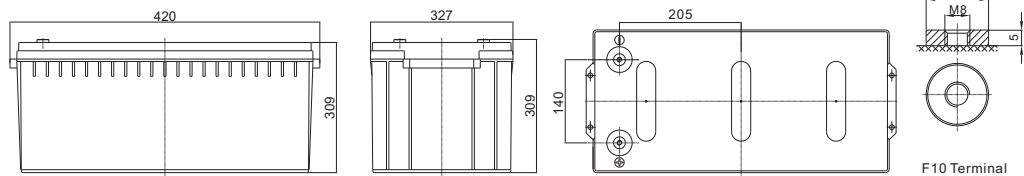
- ◆ Using the technology of Lithium Iron Phosphate Cell, superior safety, thousands of cycles, to 100% DOD, under normal conditions.
- ◆ Built-in Automatic Protection for over-charge, over-discharge, over-current and over-temperature.
- ◆ Maintenance Free
- ◆ Internal cell balancing.
- ◆ Lighter weight: About 40% ~70% of the weight of a comparable lead acid battery.
- ◆ Wider temperature range: -20°C~60°C.
- ◆ Safety: No Hazardous Gas Generated during Charging
- ◆ 6 year Guarantee
- ◆ All the Components in the Battery can be recycled or Repurposed at the End of useful Life Saving the Environment.



Application

- ◆ UPS
- ◆ Solar & Wind Power System
- ◆ Mobility
- ◆ Electric Vehicle, E-bike, E-Rickshaw etc.
- ◆ Lighting
- ◆ Leisure and Marine

Dimensions



General Specifications

Electrical Characteristics	Nominal Capacity	100Ah @ 20HR
	Energy	5280Wh
	Internal Resistance	
	Cycle Life	2000 Cycles @ 0.5C Charging/Discharging ,Until 80% Capacity
	Self Discharge	≤3.5% per month at 25°C
Standard Charging	Max.Charging Voltage	56~58.4V
	Charging Mode	At 0°C~45°C temperature, charged to 58.4V at a constant current of 0.2C5A, and then, constant voltage of 58.4V until the current is not more than 0.02C5A
	Charging Current	100Amp
	Max. Charging Current	150Amp
Standard Discharging	Max Discharging Current	200 Amp
	Max. Continuous Current	150 Amp
	Discharging Cut-off Voltage	45.6
Operating Condition	Charge Temperature	0°C to 45°C(32°F to 113°F) @60±25% Relative Humidity
	Discharge Temperature	-20°C to 60°C(-4°F to 140°F) @60±25% Relative Humidity
	Storage Temperature	0°C to 45°C(32°F to 113°F) @60±25% Relative Humidity
	Water Dust Resistance	IP55
Structure	Cell & Format	Prismatic 1P16S
	Casing	Steel
	Dimension(L*W*H*TH)	420X327X309
	Weight	Approx.38Kg
	Terminal	

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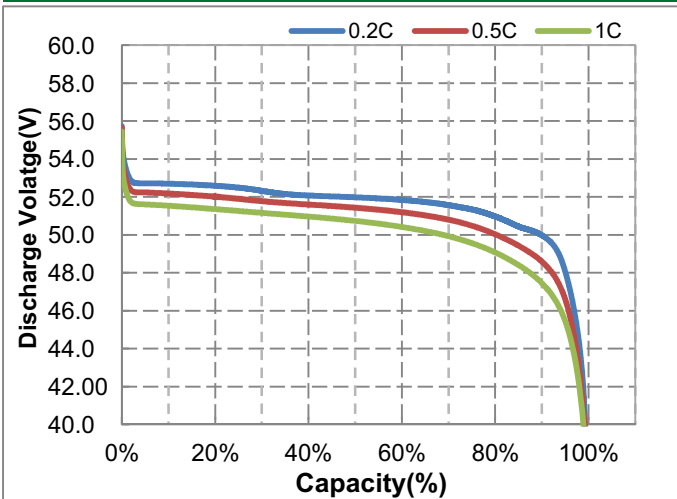
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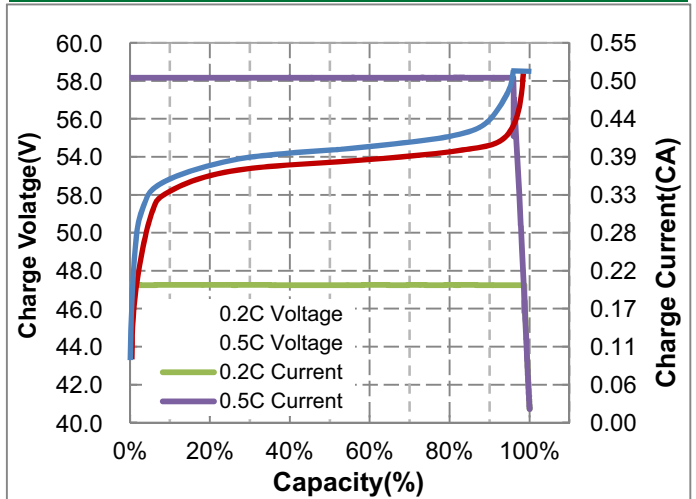
Lithium Iron Phosphate (LiFePO₄) Battery

PN: Li48-100

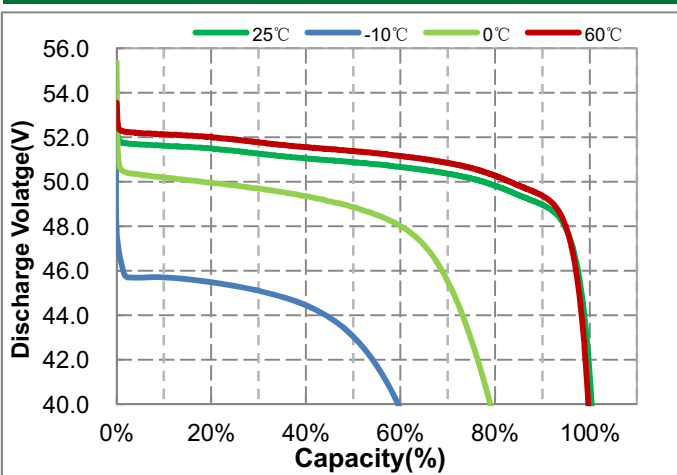
Different Rate Discharge Curve @25°C



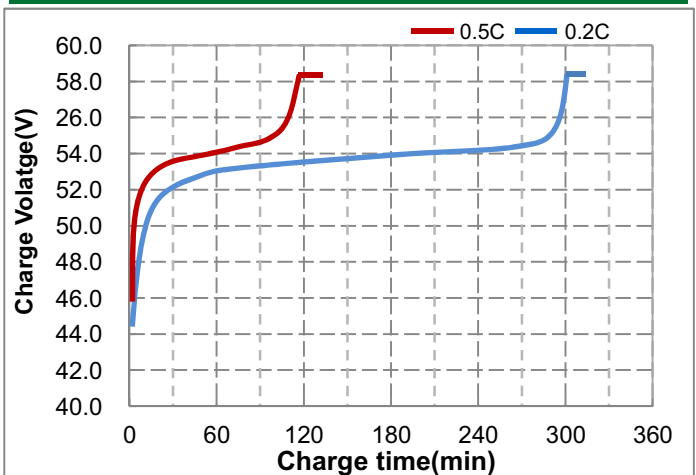
Charge Characteristics of capacity-voltage@0.2C&0.5C, 25°C



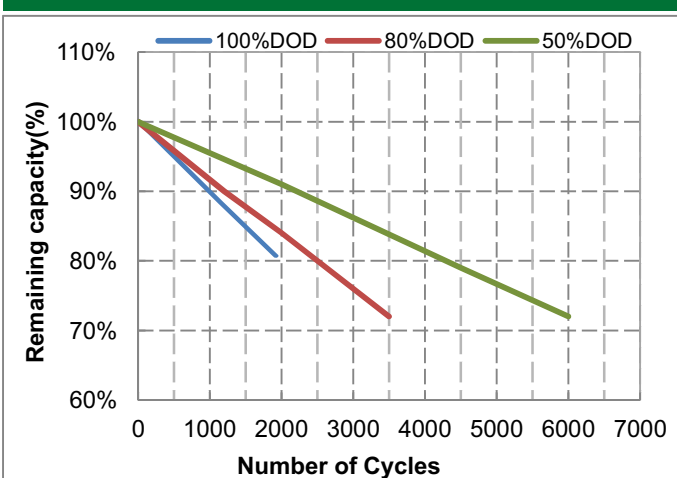
Different Temperature Discharge Curve @0.5C,25°C



Charge Characteristics of time-voltage@0.2C&0.5C, 25°C



Different DOD Discharge Cycle Life Curve @0.2C,25°C



Open circuit voltage VS SOC%@25°C

