

Lithium Iron Phosphate (LiFePO4) Battery

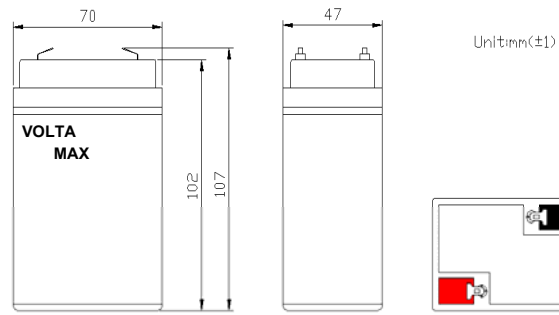
VTM660(6.4V6AH)

Features

- ◆ Using the technology of lithium iron phosphate cell, superior safety, thousands of cycles, 100%DOD, under normal conditions
- ◆ Built-in automatic protection for over-charge, over discharge, over current and over temperature
- ◆ Free of maintenance
- ◆ Internal cell balancing
- ◆ Lighter weight: About 40% ~50% of the weight of a comparable lead acid battery.
- ◆ Can be charged using most standard lead-acid charges (set)
- ◆ Wider temperature range:-20℃~60℃
- ◆ Support for Series application expansion (up to 51.2V) and two in parallel

Application

- ◆ UPS
- ◆ Solar & Wind Power System
- ◆ Golf Cart
- ◆ Electric Vehicle , E-bike, E-rickshaw etc.
- ◆ Lighting



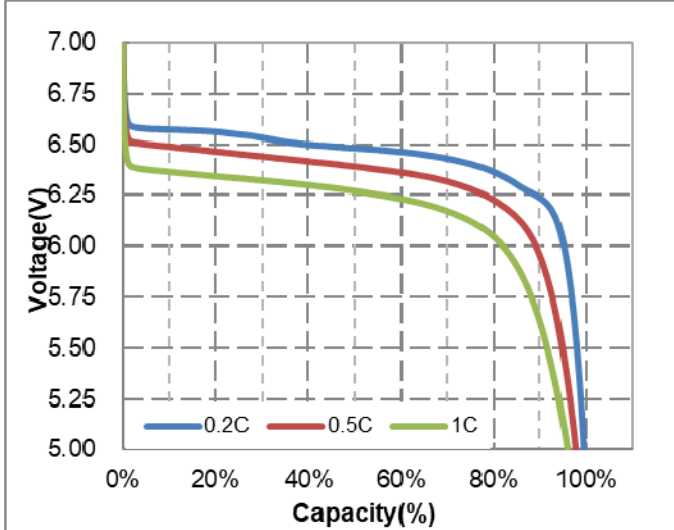
General Specifications

Electrical Characteristics	Nominal Voltage	6.4V
	Nominal Capacity	6Ah@0.2C
	Energy	38.4Wh
	Internal Resistance	90≤mΩ
	Cycle Life	>2000 Cycles @ 0.2C Charging/Discharging at 90%DOD, Until 70% Capacity.
	Self Discharge	≤3.5% per month at 25℃
Standard Charging	Charging Voltage	7.3±0.1V
	Charging Mode (CC/CV)	At 0℃~45℃ temperature, charged to 14.6V at a constant current of 0.2C5A, and then, changed continuously with constant voltage of 14.6V until the current was not more than 0.02C5A.
	Charging Current	1.2A
	Max.Charging Current	3A
Standard Discharging	Discharging Current	1.2A
	Max. Continuous Current	6A
	Max.Pulse Current	20A(<3S)
	Discharging Cut-off Voltage	5.0V
Operating Condition	Charge Temperature	0℃ to 45℃(32℉ to 113℉) @60±25% Relative Humidity
	Discharge Temperature	-20℃ to 60℃(-4℉ to 140℉) @60±25% Relative Humidity
	Storage Temperature	0℃ to 45℃(32℉ to 113℉) @60±25% Relative Humidity
	Water Dust Resistance	IP55
Structure	Cell & Format	IFR32700 N60,2S1P
	Casing	Plastic
	Dimension(L*W*H*TH)	70*47*102*107mm
	Weight	Approx. 0.4Kg
	Terminal	F1

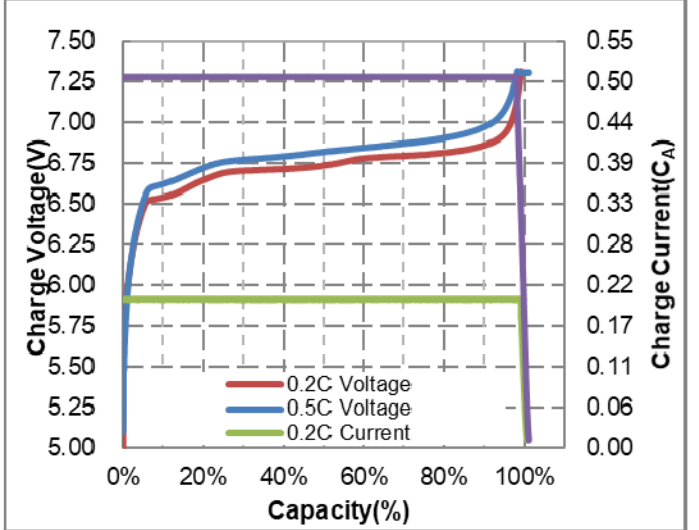
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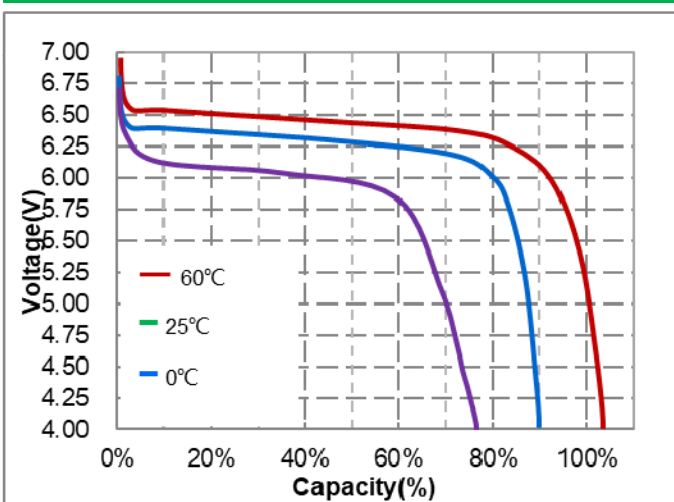
Different Rate Discharge Curve @25°C



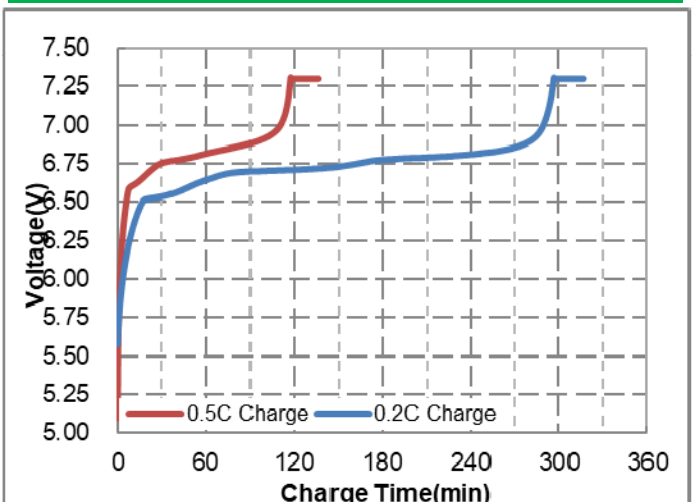
Charge Characteristics of capacity-voltage@0.2C&0.5C



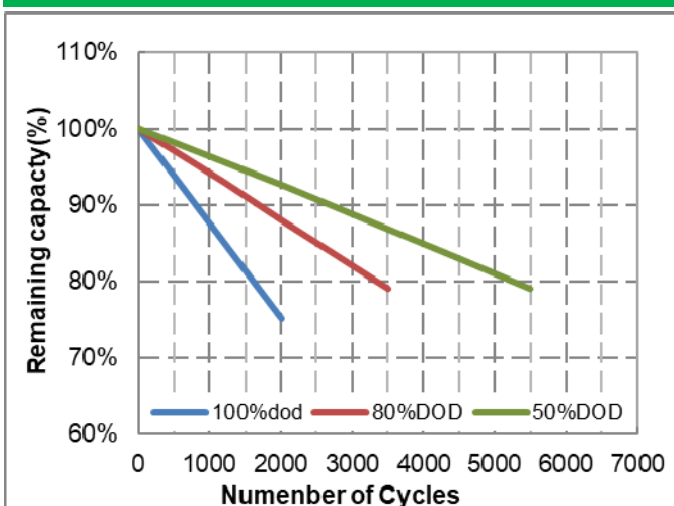
Different Temperature Discharge Curve @0.5C



Charge Characteristics of time-voltage@ 25°C



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



Open circuit voltage VS SOC%@25°C

