



Please Scan

YB-LF51100 51.2V 100Ah

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.
- ◆ It can be charged with professional photovoltaic system.
- ◆ Wider temperature range:-20℃~60℃.
- ◆ Does not support series applications, the maximum support 15 batteries parallel.



Application

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

General Specification

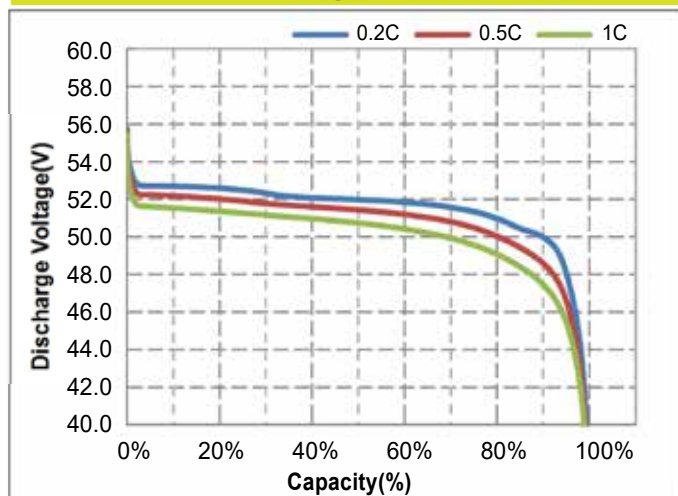
Electrical Characteristics	Nominal Voltage	51.2V
	Nominal Capacity	100Ah@0.2C
	Energy	5120Wh
	Internal Resistance	≤35mΩ
	Cycle Life	6000 Cycles @ 0.2C Charging/Discharging ,Until 70% Capacity
	Self Discharge	≤3.5% per month at 25℃
Standard Charging	Max.Charging Voltage	58.4±0.2
	Charging Mode	At 0℃~45℃ temperature, charged to 58.4V at a constant current of 0.2C, and then,changed continuously with constant voltage of 58.4V until the current was not more than 0.02C
	Charging Current	100A
	Max.Charging Current	100A
Standard Discharging	Discharging Current	100A
	Max. Continuous Current	100A
	Max.Pulse Current	110A(10S) Can be set up
	Discharging Cut-off Voltage	40.0
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	IP54
Structure	Cell & Format	PR34204195 (16S1P)
	Casing	Metal
	Max.Dimension (L*W*H)	482*480*154mm (3.5U)
	Weight	Approx. 42.5Kg
	Communication Interface	RS485 (8P8C)
	Display	LCD



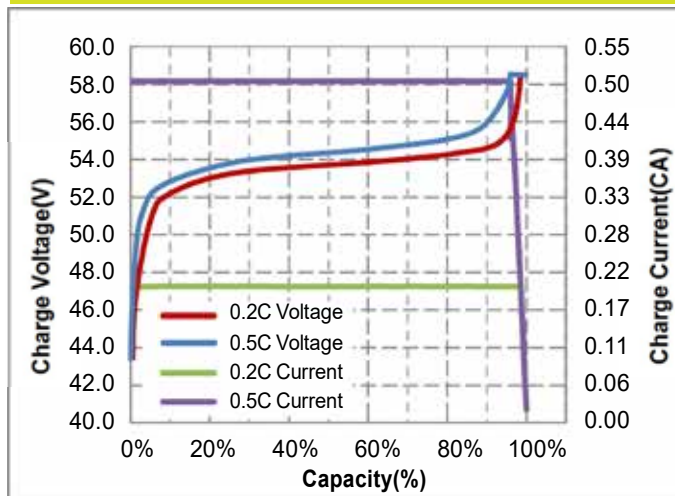
Please Scan

YB-LFP 51.2V SERIES

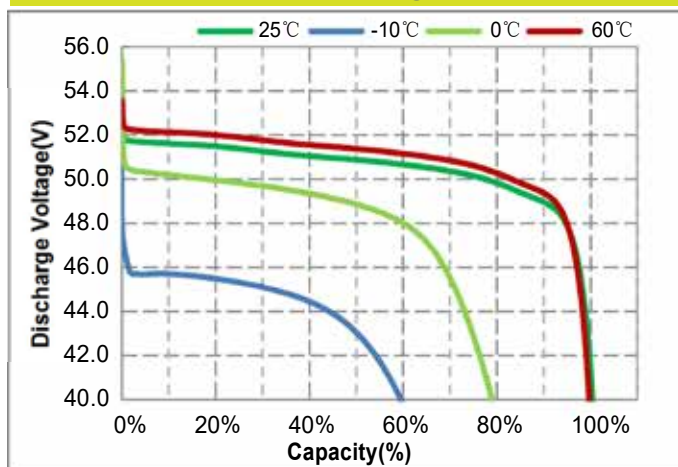
Different Rate Discharge Curve @25°C



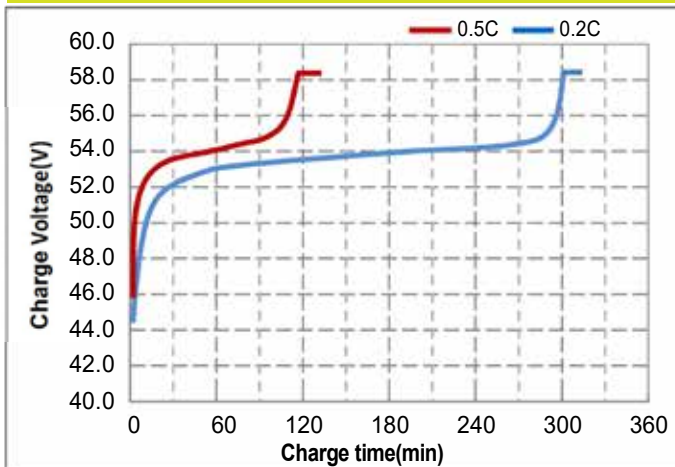
Charge Characteristics of capacity-voltage@0.2C&0.5C, 25°C



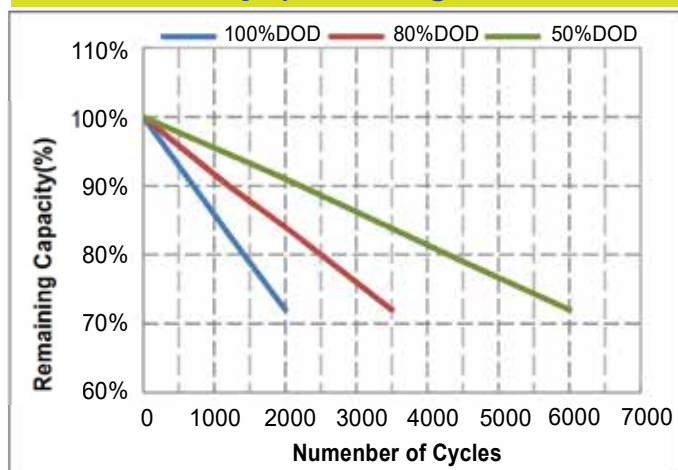
Different Temperature Discharge Curve @0.5C, 25°C



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

