

SPECIFICATION SHEET ST100BT/ST100

Features and Benefits

- 5 years warranty
- > 3000 cycles @100% DoD

Much longer cycle life compared with lead acid battery, which will minimize replacement cost.

- Lighter weight but high energy density

1/3 of the weight of lead acid, lowering total weight of application, but delivers twice power.

- Smart BMS control

With integrated BMS protection against over charge/discharge, over current, short circuit and temperature, etc.

- CE / UN38.3 / MSDS Certified

- App monitoring is optional



Nominal Voltage	12.8V
Nominal Capacity	100Ah
Energy	1280Wh
Measurements(L*W*H)	330*172*223mm
Weight	11.8Kgs
Terminal Type	M8*1.25*10mm
Terminal Torque	12 ~ 15 N.m
Case Material	ABS-FR
Enclosure Protection	IP65
Max. Batteries in Series	4
Discharge Temperature	-20~60℃
Charge Temperature	0~45℃

Max. Continuous Discharge Current	100A
Recommended Discharge Current	50A
Recommended Low Voltage Disconnect	10V
BMS Discharge Cut-off voltage	>8.4V(50~150ms)
Reconnect Voltage	>10V
Short Circuit Protection	200~600μs
Recommended Charge Current	20A
Max. Charge Current	50A
Recommended Charge Voltage	14.6V
BMS Charge Cut-off Voltage	<15.2V(0.5~1.5s)
Reconnect Voltage	>14.4V
Balancing Voltage	<14V



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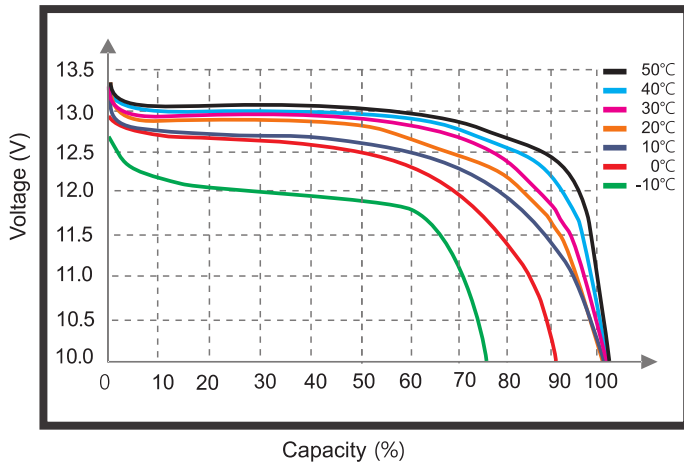
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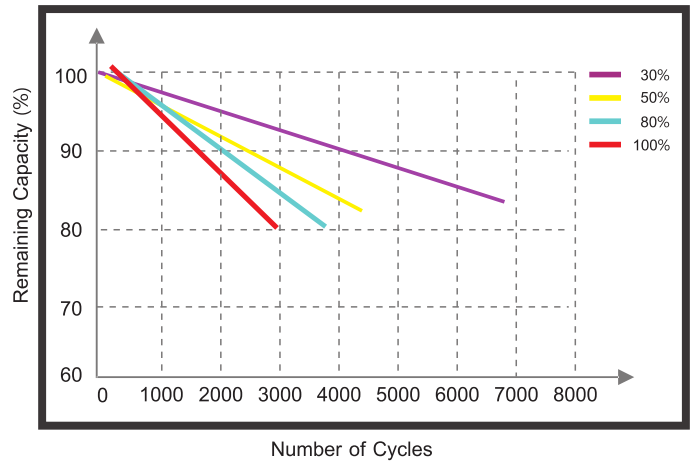
Note: Cell and battery designs/specifications are subject to modification without prior notice.

PERFORMANCE UNDER DIFFERENT CONDITIONS

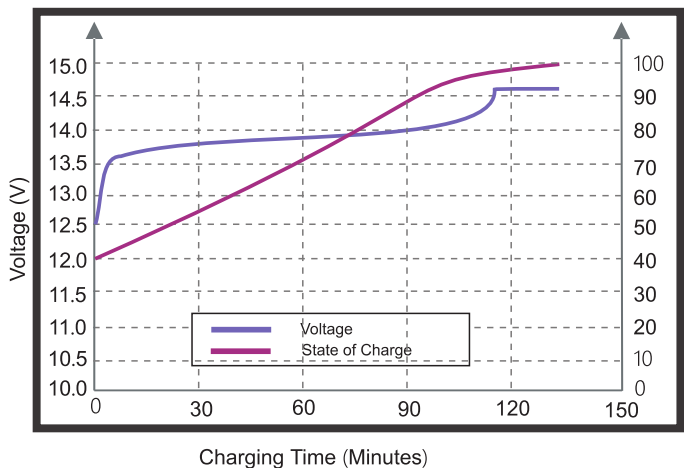
Different Temperature Discharge Curve(0.5C)



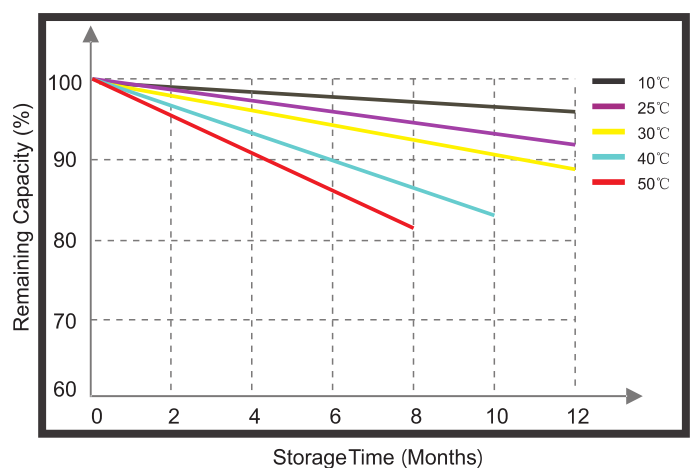
Different DOD Discharge Cycle Life Curve(1C)



State of Charge Curve(0.5C, 25°C)



Different Temperature Self Discharge Curve



APPLICATIONS

Lithium Iron Phosphate can be used in most applications that use Lead Acid, GEL or AGM type batteries.

Suitable applications include:

- Caravan
- Marine
- Golf Car
- Buggies
- Solar Storage
- Remote Monitoring
- Switching applications and more

CAUTIONS

- Do NOT short circuit, crush or disassemble.
 - Do NOT heat or incinerate.
 - Do NOT immerse in any liquid.
 - Storing at 50% capacity. Recharging every 3 months.
- The storage area should be clean, cool, dry and ventilated.