

LITHIUM IRON PHOSPHATE BATTERY

ELECTRICAL SPECIFICATION

Nominal Voltage	12.8V
Nominal Capacity	100AH
Capacity @0.2C	5HR
Energy	1280WH
Resistance	≤ 20m Ω
Efficiency	99%
Self Discharge	< 3% per month

DISCHARGE SPECIFICATIONS

Max. Cont. Discharge	100A
Peak Discharge Current	200A
Discharge Cut-off Voltage	10V

CHARGE SPECIFICATION

Recommended Charge Current	20-30A
Max. Charge Current	100A
Max Charge Voltage	14.6V
Charge Current (-20 °C to -10 °C)	≤ 0.05C



MECHANICAL SPECIFICATIONS

Dimensions (L*W*H)	280*210*170mm
Weight	12KG
Terminal Type	M8 Screw
Case Material	ABS case
Enclosure Protection	IP65
Cell Type	Prismatic 3.2V 100ah

TEMPERATURE SPECIFICATION

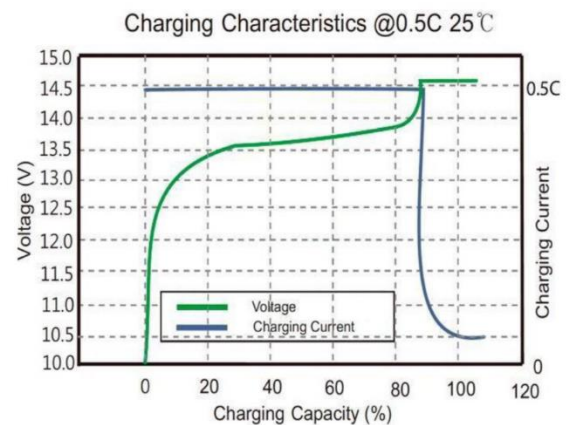
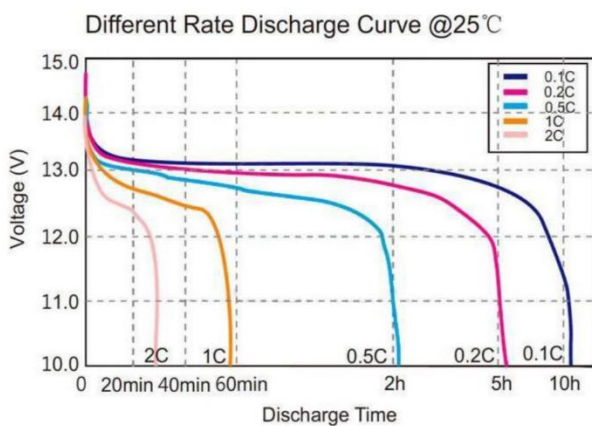
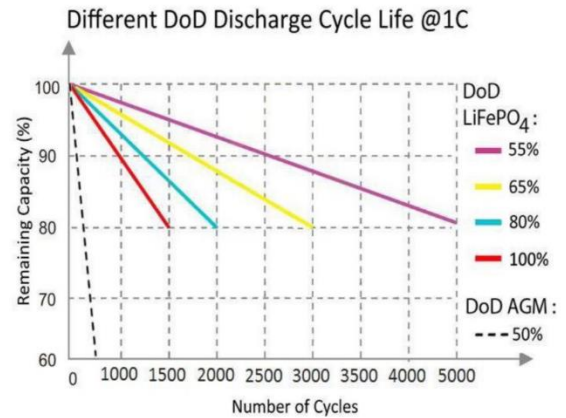
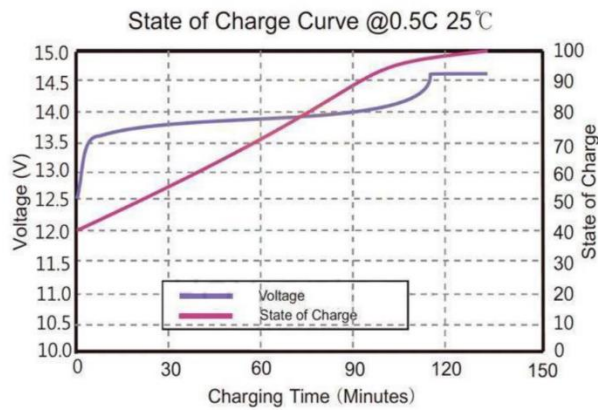
Discharge Temperature	-20 °C to 60 °C
Charge Temperature	0 °C to 55 °C
Storage Temperature	-20 °C to 40 °C
BMS High Temperature	80 °C
Reconnect Temperature	50 °C

OTHER CUSTOMISE SERVICE

FEATURE & BENEFITS

- High Cycle Life : >2000 times @80%DOD for Effectively lower cost of ownership
- Built-in BMS Protection: Battery Management System are incorporated to protect battery from OVER CHARGING, OVER DISCHARGING , SHORT CIRCUIT
- LIGHT WEIGHT: Dry power lithium batteries has higher energy density, wh/kg also being up to 1/3 of SLA battery
- WIDE OPERATING TEMPERATURE RANGE: Suitable for users in a wider range of application where ambient temperature is unusually high: up to +60° C
- STEADY OUTPUT VOLTAGE, VIBRATION & SHOCK RESISTANT, NO MEMORY EFFECT, PRESSURE RESISTANT CELLS

PERFORMANCE CHARACTERISTIC



SUITABLE APPLICATIONS

- Lithium Iron Phosphate can be used in any application that would normally use Lead Acid, GEL, or AGM type batteries.
- LiFePO4 in 4S=12.8V and 8S=25.6V is closed to Lead Acid equivalents of the Lithium rechargeable types
- Suitable applications included caravan, marine, golf carts, solar storage, remote monitoring, switching applications

CAUTIONS

- Do NOT expose the battery to water
- Do NOT expose the battery to fire & high temperature
- Do NOT short circuit, crush, or disassemble
- Only use LiFePO4 charger
- Store at 50% capacity, recharge every 3 months. The storage area should be clean, cool, dry and ventilated.