

**LITHIUM IRON PHOSPHATE BATTERY**
**ELECTRICAL SPECIFICATION**

Nominal Voltage	12V (12.8V)
Nominal Capacity	14AH
Capacity @0.2C	5HR
Energy	179.2WH
Resistance	≤ 200m Ω
Efficiency	99%
Self Discharge	< 3% per month

**DISCHARGE SPECIFICATIONS**

Max. Cont. Discharge	10A
Peak Discharge Current	20A (5 seconds)
BMS Discharge Current	20A (5 seconds)
Recommend Cut-off Voltage	10V
BMS Discharge cut off	9.2V
Short Circuit Protection	200-600 μs

**CHARGE SPECIFICATION**

Recommended Charge Current	5-8A
Max. Charge Current	20A
BMS Charge Voltage Cut-off	14.6V (1±0.2S)
Reconnect Voltage	14.2V-14.6V
Balancing Current	20mA
Balancing Voltage	3.5V
Charge Current (-20 °C to -10 °C)	≤ 0.05C

**FEATURE & BENEFITS**

- High Cycle Life : >1000 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


**MECHANICAL SPECIFICATIONS**

Dimensions (L*W*H)	151*99*94mm
Weight	2.2KG
Terminal Type	F2 Terminal
Case Material	ABS
Enclosure Protection	IP56
Cell Type	Cylinder cell- LifePO4

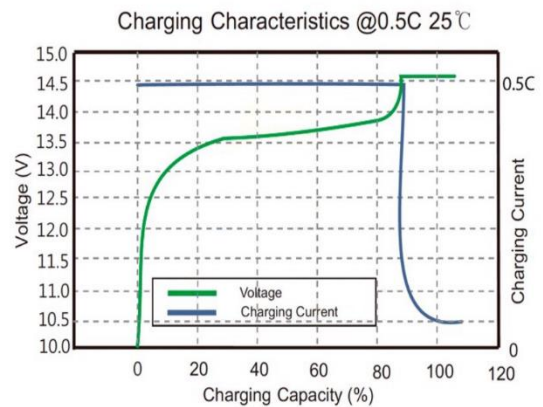
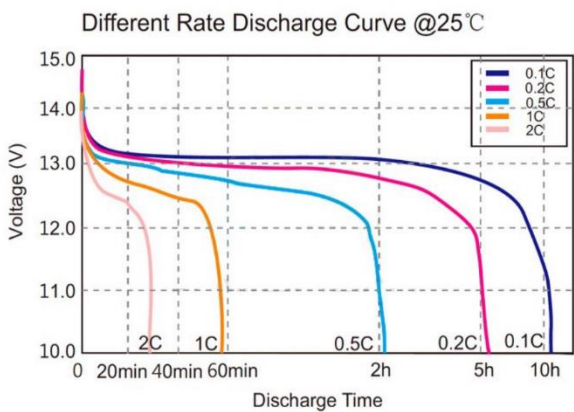
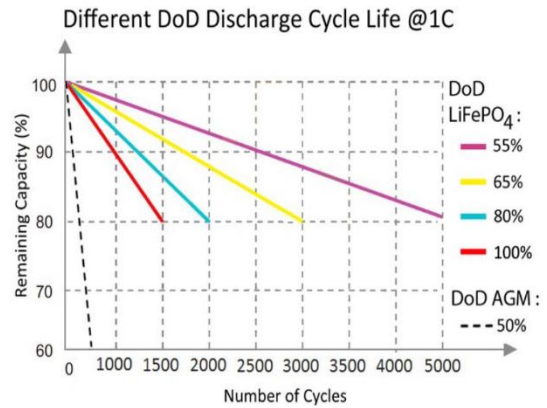
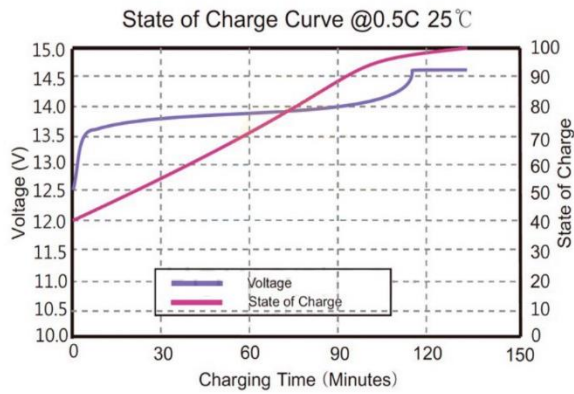
**TEMPERATURE SPECIFICATION**

Discharge Temperature	-20 °C to 60 °C
Charge Temperature	0 °C to 45 °C
Storage Temperature	-20 °C to 40 °C
BMS High Temperature	80 °C
Reconnect Temperature	50 °C

**OTHER CUSTOMISE SERVICE**

CHARGE/DISCHARGE CURRENT, BATTERIES SIZE, OBM

## 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.