

LITHIUM IRON PHOSPHATE BATTERY

ELECTRICAL SPECIFICATION

Nominal Voltage	12.8V
Nominal Capacity	50AH
Capacity @10A	5HR
Energy	640WH
Resistance	≤50mΩ
Efficiency	99%
Self Discharge	< 3% per month
Max. Modules in Series	1

DISCHARGE SPECIFICATION

Max. Cont. Discharge	50A
Peak Discharge Current	100A (3 Second)
BMS Discharge Current	100A (3 Second)
Recommend Cut-off voltage	10V
BMS Discharge cut off	9.2V
Short Circuit Protection	200-600 μs

CHARGE SPECIFICATION

Recommended Charge Current	10-20A
Max. Charge Current	50A
BMS Charge Voltage Cut-off	14.6V
Reconnect Voltage	14.2V-14.6V
Balancing Current	100-300mA
Balancing Voltage	2.5V
Charge Method	CC/CV



MECHANICAL SPECIFICATION

Dimensions (L*W*H)	150x65x95mm
Weight	1.2KG
Terminal Type	Nickel plate
Case Material	ABS
Enclosure Protection	IP56
Cell Type	Cylinder cell- LiFePO4

TEMPERATURE SPECIFICATION

Charge Temperature	0 to 45 °C
Discharge Temperature	-20 to 60 °C
Storage Temperature	0 to 40 °C
BMS High Discharge Temperature	65-85 °C
BMS High Charge Temperature	65-85 °C

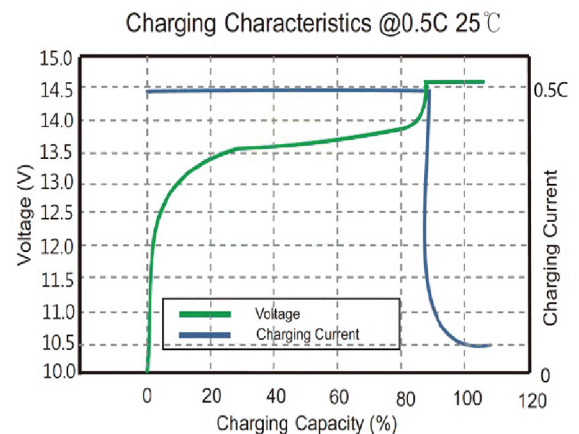
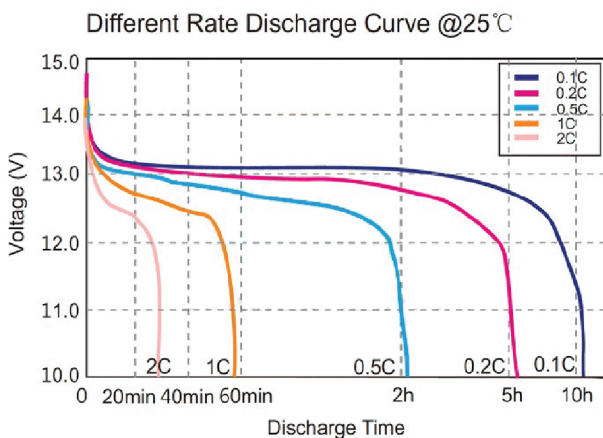
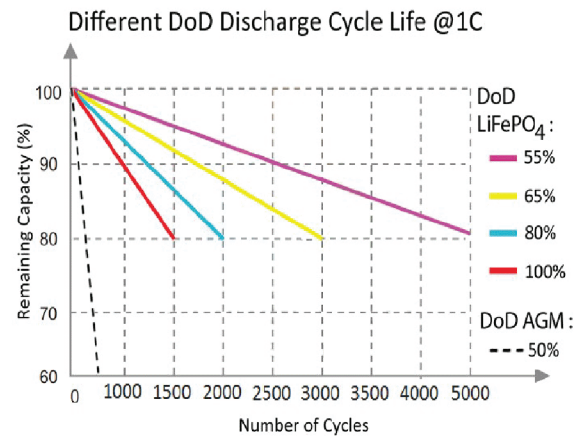
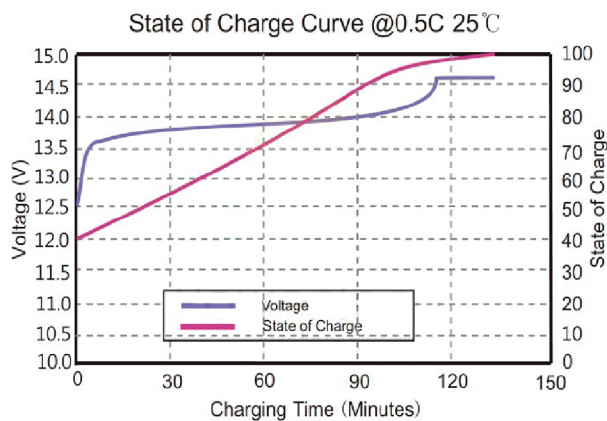
FEATURE & BENIFITS

- CHARGE/DISCHARGE CURRENT, BATTERY SIZE, OEM

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.