

# LVB48100

## LITHIUM IRON PHOSPHATE BATTERY

### 48V 100AH LiFePO4 Battery

#### ELECTRICAL SPECIFICATION

Nominal Voltage	51.2V
Nominal Capacity	100AH
Capacity @20A	5HR
Energy	5120Wh
Resistance	≤50m Ω
Efficiency	99%
Self Discharge	< 3% per month



#### DISCHARGE SPECIFICATIONS

Max. Cont. Discharge	100A
Peak Discharge Current	200A(15S)
Recommend Cut-off voltage	42V

#### CHARGE SPECIFICATION

Recommended Charge Current	30-50A
Max. Charge Current	100A
Recommended Charge Voltage	58.4V

Charge Current (-20 to -10 ° C)	≤0.05 C
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#### MECHANICAL SPECIFICATIONS

Dimensions (L*W*H)	482*300*250mm
Weight	48KG
Terminal Type	M8 screw
Case Material	Metal
Enclosure Protection	IP44
Cell Type: Prismatic	16S1P
Total Cell	16 PIECES

#### 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

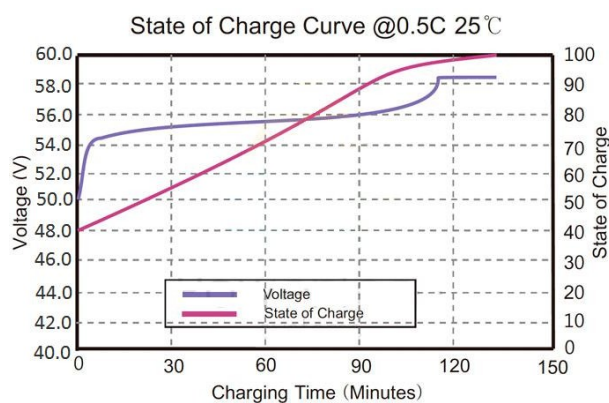
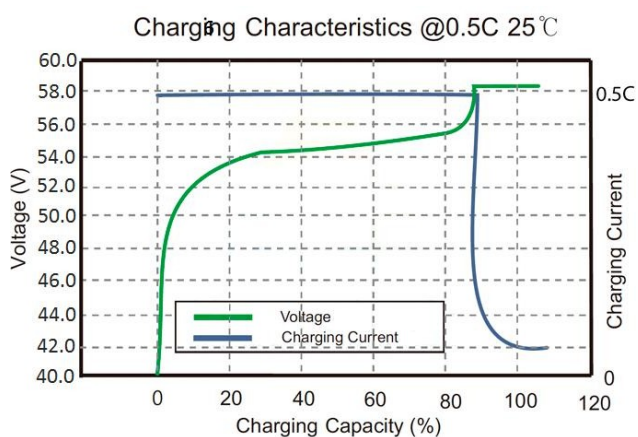
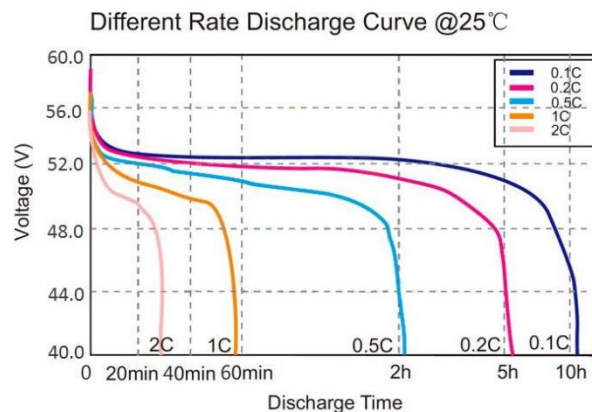
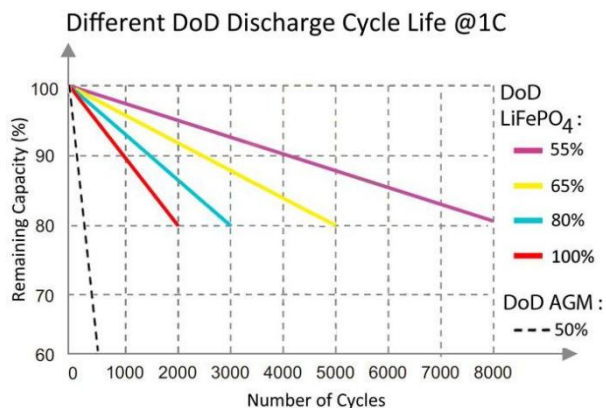
#### FEATURE & BENEFITS

- High Cycle Life: >3000 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.
- LiFePO<sub>4</sub> 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 LiFePO<sub>4</sub> charger
- Store at 50% capacity, recharge every 3 months. The storage area should be clean, cool, dry and ventilated.