

Features of LiFePO4 battery

- **Longer Cycle Life:** Offers up to 20times longer cycle life and five times longer float /calendar life than lead acid battery, helping to minimize replacement cost and reduce total cost of ownership.
- **Lighter Weight:** About 40% of the weight of a comparable lead acid battery. A 'drop in' replacement for lead acid batteries.
- **Higher Power:** Delivers twice power of lead acid battery ,even high discharge rate, while maintaining high energy capacity.
- **Wider Temperature Range:** -20°C-60°C.
- **Superior Safety:** Lithium Iron Phosphate chemistry eliminates the risk of explosion or combustion due to high impact, overcharging or short circuit situation.
- **Increased Flexibility:** Modular Design enables deployment of up to up to ten battery in parallel.

BATTERY MODEL: YS-25.6-100
(25.6V 100Ah)



BMS Specification

- Overcharge detection function
- Over discharge detection function
- Over current detection function
- Temperature protection
- Short detection function
- Balance function

Application

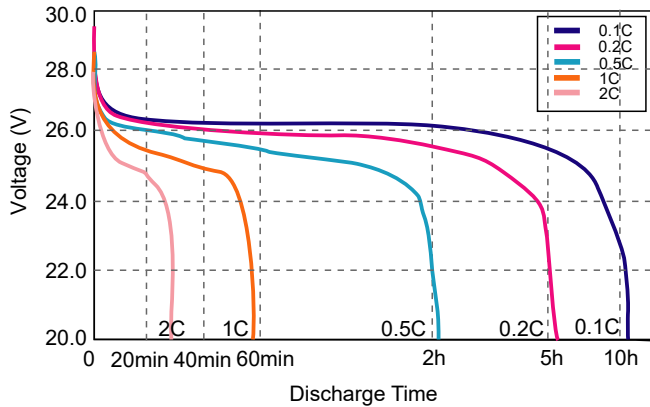
- Electric vehicles, electric mobility
- Solar/wind energy storage system
- UPS, backup power
- Telecommunication
- Medical equipment
- Lighting

Specification

| | | |
|----------------------------|---------------------------|---|
| Electrical Characteristics | Nominal Voltage | 25.6V |
| | Nominal Capacity | 100Ah (C ₅ ,25°C) |
| | Energy | 2560Wh |
| | Internal Resistance | ≤ 200mΩ |
| | Cycle Life | >2000 cycles @1C 100%DOD |
| | Months Self Discharge | <3% |
| | Efficiency of Charge | 100% @0.2C |
| | Efficiency of Discharge | 96~99% @1C |
| Standard Charge | Charge Voltage | 29.2±0.2 V |
| | Charge Mode | 0.2C to 29.2V, then 29.2,charge current 0.02C(CC/CV) |
| | Charger Current | 40A |
| | Max. Charge Current | 100A |
| | Charge Cut-off Voltage | 29.6V± 0.2V |
| Standard Discharge | Continuous Current | 100A |
| | Max. Pulse Current | 300A(<3s) |
| | Discharge Cut-off Voltage | 20V |
| Environmental | Charge Temperature | 0 °C to 45 °C (32F to 113F) @60%25% Relative Humidity |
| | Discharge Temperature | -20 °C to 60 °C (-4F to 140F) @60%25% Relative Humidity |
| | Storage Temperature | 0 °C to 40 °C (32F to 104F) @60%25% Relative Humidity |
| | Water Dust Resistance | |
| Mechanical | Cell & Method | 3.2V100Ah 8s1p |
| | Plastic Case | ABS |
| | Dimensions (in./mm.) | 483*170*240 |
| | Weight (lbs./kg.) | 26Kg |
| | Terminal | M8 |
| | Protocol (optional) | NO |
| | BMS | 8S100A |

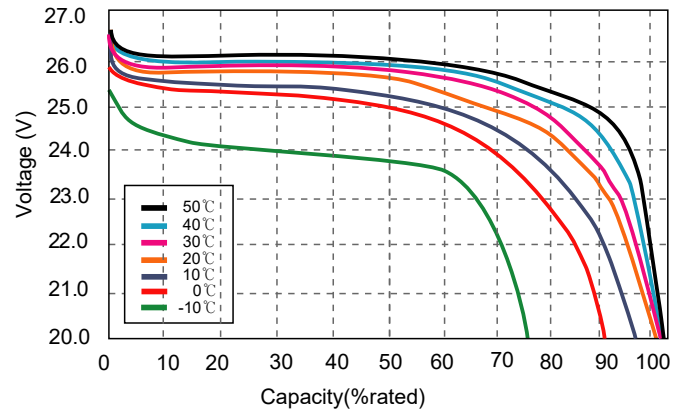
Different Rate Discharge Curve

Different Rate Discharge Curve @25°C



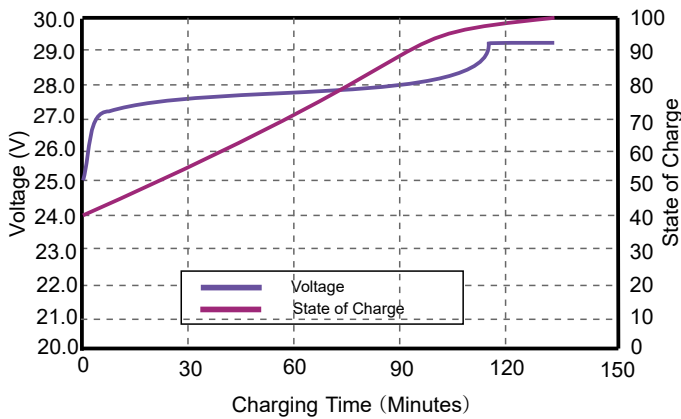
Different Temperature Discharge Curve

Different Temperature Discharge Curve @0.5C



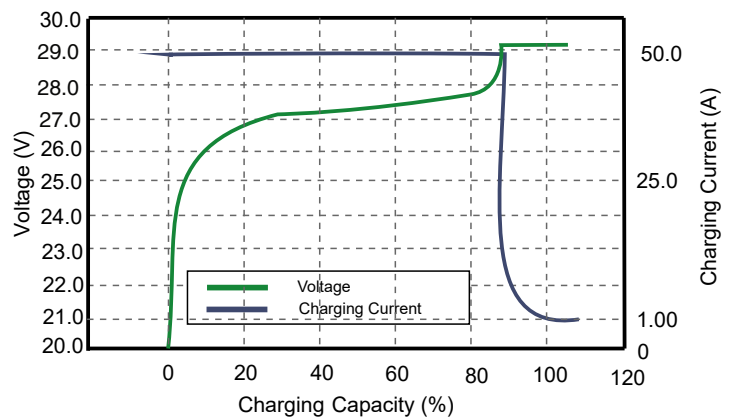
State of Charge Curve

State of Charge Curve @0.5C 25°C



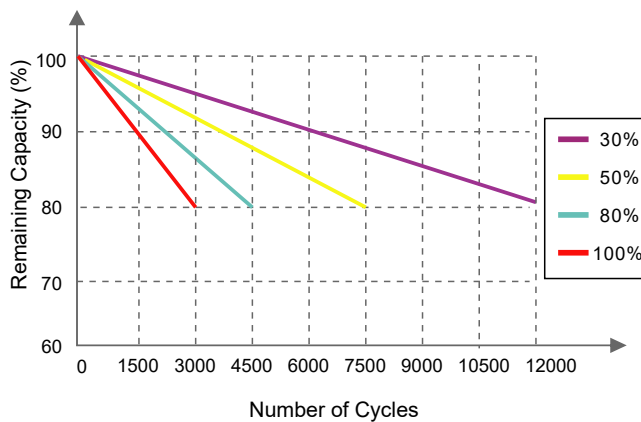
Charging Characteristics

Charging Characteristics @0.5C 25°C



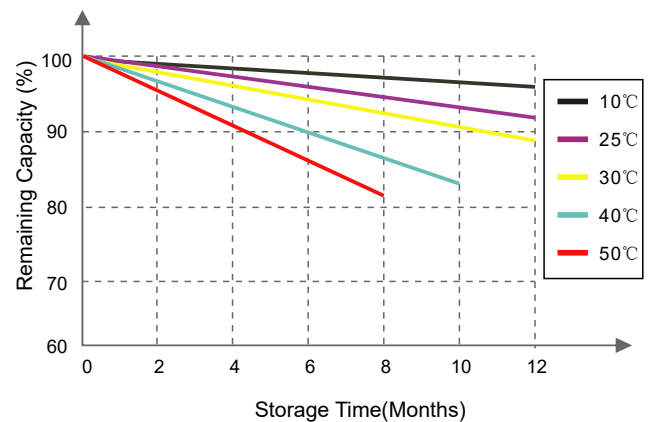
Cycle Life Curve

Different DOD Discharge Cycle Life Curve @1C



Self Discharge Characteristics Curve

Different Temperature Self Discharge Curve



Safety certification |