



LFP 51.2V 160Ah



Features of LiFePO4 Battery

- **Longer Cycle Life:** Offers up to 20 times 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.
- **Light 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 four batteries in series and up to four batteries in parallel.

Application

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

Specification

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| Electrical Characteristics | Nominal Voltage | 51.2V |
| | Nominal Capacity | 160 Ah(C5,25°C) |
| | Energy | 8192 Wh |
| | Internal Resistance | ≤30mΩ |
| | Cycle Life | ≥4000 cycles@0.5C 100% DOD |
| | Months Self Discharge | <3% |
| | Efficiency of Charge | 100% @ 0.2C |
| | Efficiency of Discharge | 96-99%@0.5C |
| Standard Charge | Charge Mode | 58.4 ±0.2V |
| | Charge cut-off voltage | 0.2C Charge to 58.4V, then 58.4V Charge to 0.02C cut-off |
| | Charge current | 20A |
| | Max charge current | 50A |
| | Continuous current | 100A |

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| Standard Discharge | Max Pulse current | 150A(<3s) |
| | Discharge cut-off voltage | 20 V |
| | Continuous discharge current | 100A |
| Environmental | Storage Temperature | 0°C to 55°C (32F to 113F)@60±25% Relative Humidity |
| | Charge Temperature | 0°C to 45°C (32F to 113F)@60±25% Relative Humidity |
| | Discharge Temperature | -20°C to 60°C (32F to 140F)@60±25% Relative Humidity |
| Mechanical | Cell & Method | 3.2V 160AH-16S1P |
| | Plastic Case | Iron |
| | Dimensions | 600*500*173mm |
| | Weight | 90 kg |
| | Terminal | 100A |
| | Protocol | RS485/RS232/CAN |