

Lithium Iron Phosphate (LiFePO4) Battery

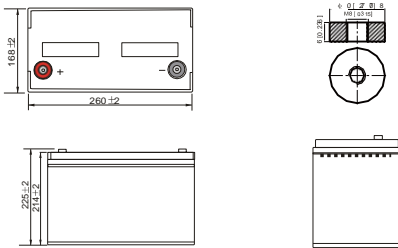
SLAUMXLI75-12 (12.8V, 75AH)

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.
- **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 four batteries in series and up to ten batteries in parallel.



Physical Dimension



Application

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

Specification

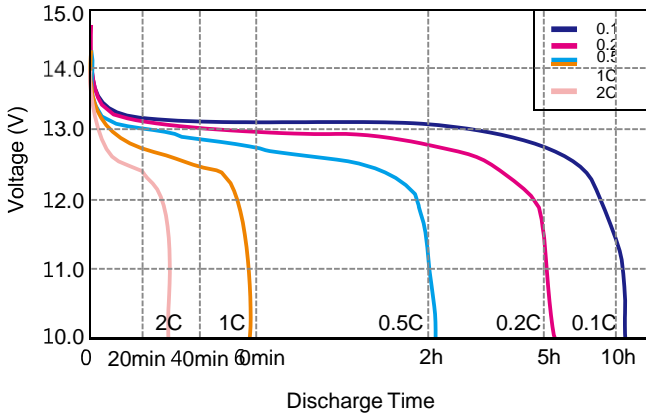
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|----------------------------|---------------------------|--|
| Electrical Characteristics | Nominal Voltage | 12.8V |
| | Nominal Capacity | 75Ah |
| | Energy | 960Wh |
| | Internal Resistance | ≤60mΩ |
| | Cycle Life | >2000 cycles @1C 100%DOD |
| | Months Self Discharge | <3% |
| | Efficiency of Charge | 100% @0.5C |
| | Efficiency of Discharge | 96~99% @1C |
| Standard Charge | Charge Voltage | 14.4±0.1V |
| | Charger Current | 0.2C to 14.4V, then 14.4V, charge current to 0.02C (CC/CV) 40A 75A |
| | Charge Cut-off Voltage | 14.6V±0.1V |
| Standard Discharge | Continuous Current | 75A |
| | Max. Pulse Current | 100A(<3s) |
| | Discharge Cut-off Voltage | 10V |
| 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 |
| Mechanical | Cell & Method | 2770180 4S3 P |
| | Plastic Case | ABS |
| | Dimensions (mm./in.) | 260*168*214mm (10.24"*6.61"*8.43") |
| | Weight (kg./lbs.) | 9.86kg (21.74lbs) |
| | Terminal | M8 |
| | In parallel | Not allowed |

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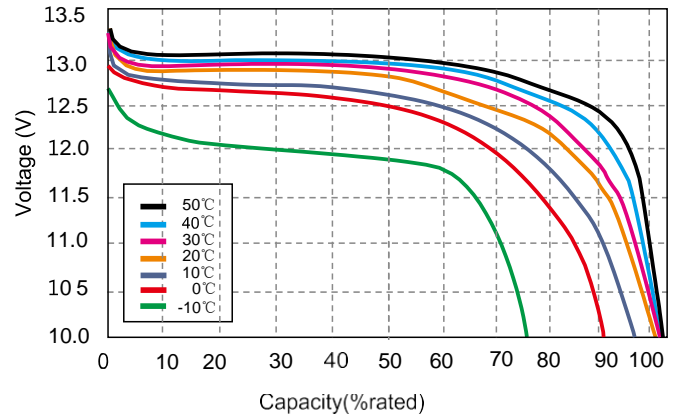
Different Rate Discharge Curve

Different Rate Discharge Curve @25°C



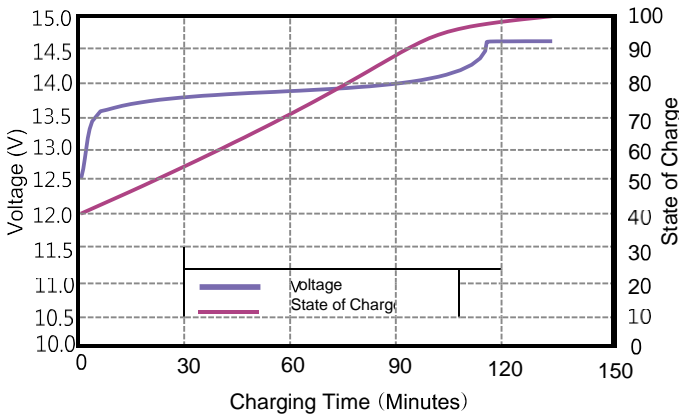
Different Temperature Discharge Curve

Different Temperature Discharge Curve @0.5C



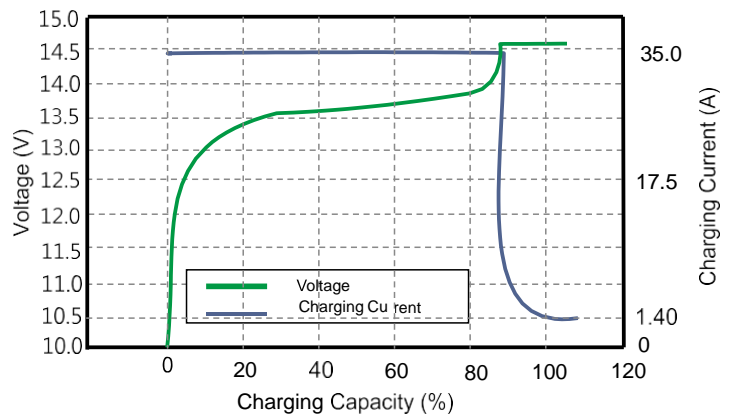
State of Charge Curve

State of Charge Curve @0.5C 25°C



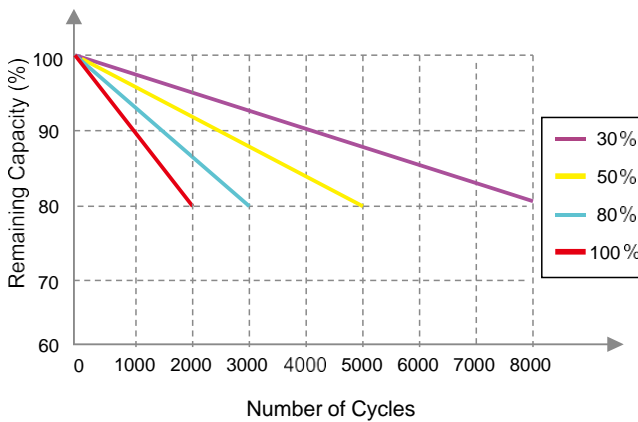
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Charging Characteristics @0.5C 25°C



Cycle Life Curve

Different DOD Discharge Cycle Life Curve @1C



Self Discharge Characteristics Curve

Different Temperature Self Discharge Curve

