

LITHIUM IRON BATTERIES

Model: SL75-LI

12.80

UN38.3 (E

SL75-LI

STARMA

2.8V Energy: 9d

LITHIUM IRON

SL75-LI

UN38.3 (E 🚯 🕅

12.8V 75Ah

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The world's leading battery brand

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www.starmaxbatteries.com

Model: SL75-LI

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.

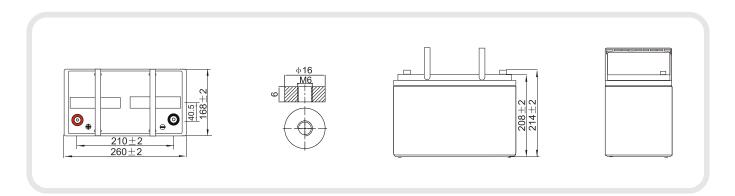
Superior Safety: Lithium Iron Phosphate chemistry eliminates the risk of explosion or combustion due to high impact, overcharging or short circuit situation.



Typical Applications

- Wheelchairs and scooters
- Solar/wind energy storage
- Back-up power for small UPS
- Golf trolleys & buggies
- Electric bikes
- Tools

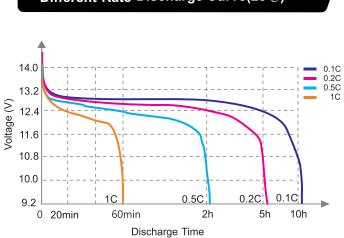
Physical Dimension-mm





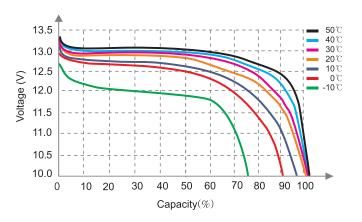
Specifications

| Electrical Characteristics | Nominal Voltage | 12.8V |
|-------------------------------|---------------------------|--|
| | Nominal Capacity | 75.0Ah |
| | Energy | 960Wh |
| | Internal Resistance(AC) | ≤50mΩ |
| | 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 | 14.6±0.2V |
| | Charge Mode | 0.2C to 14.6V, then 14.6V, charge current to 0.02C (CC/CV) |
| | Charge Current | 40.0A |
| | Max. Charge Current | 80.0A |
| | Charge Cut-off Voltage | 14.6V±0.2V |
| Standard Discharge | Rated Discharge Current | 38.0A |
| | Max. Discharge Current | 75.0A |
| | Discharge Cut-off Voltage | 10.0V |
| Environmental | Charge Temperature | 0°C to 55°C (32F to 131F) @60±25% Relative Humidity |
| | Discharge Temperature | -20°C to 60°C (-4F to 140F) @60±25% Relative Humidity |
| | Storage Temperature | -20°C to 40°C (-4F to 113F) @60±25% Relative Humidity |
| | IP Class | IP65 |
| Mechanical | Plastic Case | ABS |
| | Approx. Dimensions | 260mm*168mm*214mm (10.24in.*6.61in.*8.43in.) |
| | Approx. Weight | 9.30kg (20.50lbs) |
| | Terminal | Мб |



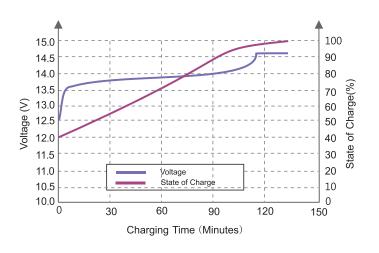
Different Rate Discharge Curve(25℃)

Different Temperature Discharge Curve(0.5C)

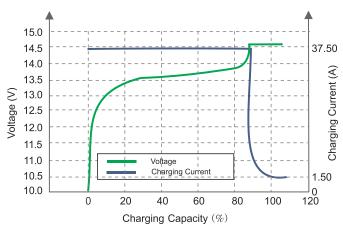




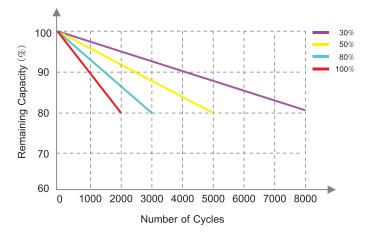
State of Charge Curve(0.5C, 25℃)



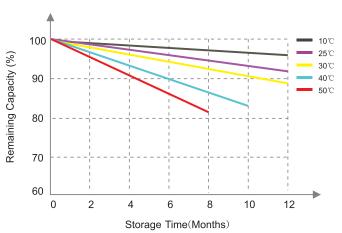
Charging Characteristics(0.5C, 25℃)



Different DOD Discharge Cycle Life Curve(1C)



Different Temperature Self Discharge Curve







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