

Litech 12V 50Ah LiFePO4 Lithium Battery
SC series - Series Connection Capable



Support 4 units In series

Crafted out of Lithium Iron Phosphate (LiFePO4) technology, this is a battery built to last. With 2,000+ recharge cycles (and up to 7,000 under ideal charging conditions) the 50 Ah provides 5 X the lifespan than your typical SLA battery. Combine 2 for 24 Volts or 4 for a 48 Volt system. ideal for industrial purposes where you need a long lifespan battery that charges quickly, or for outdoor uses like hiking or camping where weight is at a premium.

SPECIFICATIONS

| | |
|------------------------------|--|
| Nominal Voltage | 12.8V |
| Rated Capacity | 50AH @0.5C to 9.6V |
| Stored energy | 640Wh |
| Cycle life@100%DOD | 2000 Cycles |
| Approx. Weight | 6.3kg |
| Internal Resistance | ≤60.0 m Ω |
| Max. Charge Current | 50 A |
| Max. Discharge Current | 50 A |
| Charge Cut-off Voltage | 15.2V |
| Discharge Cut-Off Voltage | 9.6V |
| Dimensions | L198mm × W166mm × H170mm |
| Series & Parallel Connection | Up to 4 batteries |
| Operating Temperature Range | |
| Charge | 32°F (0°C) to 113°F (45°C) |
| Discharge | -4°F (-20°C) to 140°F (60°C) |
| Recommended | 59°F (15°C) to 95°F (35°C) |
| Self-Discharge Rate | ≤3%/month |
| Life Expectancy (years) | 10 years @25° C in 80%DOD |
| Self Discharge | Approx. 2% per month @ 25° C |
| Long Term Storage | Charge every 6 months |
| Short Circuit Protection | Automatically recover after removal of short |
| Terminal Type | M8 terminal |



COMPLIED STANDARD

- ✓ IEC 62133
- ✓ UL 1642
- ✓ ISO9001
- ✓ ISO14001
- ✓ UN38.3

INTELLIGENT BMS FUNCTION

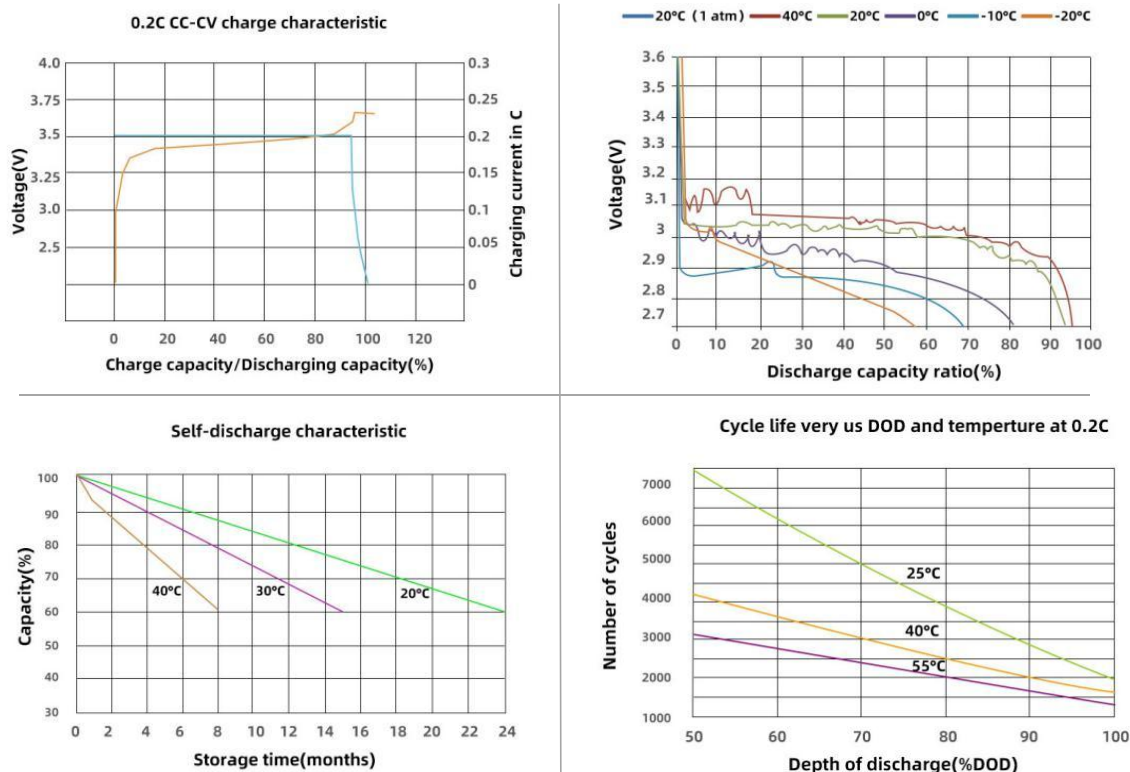
- Overcharge detection function
- Over discharge detection function
- Over current detection function
- Short detection function
- Temperature detection function
- Balance function

SERIES CONNECTION CAPABLE

The SC series allows for up to 4 batteries connected in series or 10 in parallel, but not concurrently. The batteries must all be matched at voltage levels, capacity, state of charge, date of manufacturing, and chemistry.

APPLICATIONS

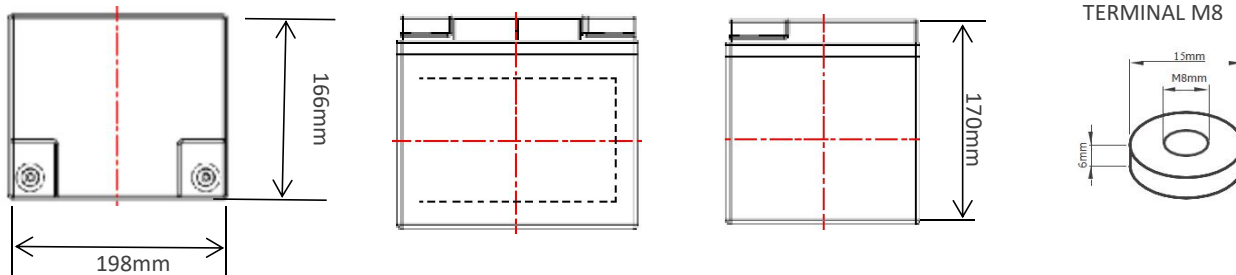
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BENEFITS OF LITHIUM

Lithium offers several performance benefits versus its sealed lead acid (SLA) equivalent. A lithium battery's capacity is independent from the discharge rate and provides constant power throughout its discharge. The degradation of a lithium battery at a high temperature is significantly reduced in comparison to SLA. Lithium has ten times the cycle life as SLA at room temperature. Even at an elevated temperature, lithium still has increased cycle life over SLA at room temperature. Lastly, Lithium charging follows a similar charging profile as SLA, Constant Current Constant Voltage (CC/CV). However, lithium can be charged faster, without the need for a maintenance float charge.

BATTERY DIMENSIONS



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