

Litech 12V 50Ah LiFePO4 Lithium Battery LH series - Low Temperature Heating series



Work at -30°C

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. Built-in self-heating system, When the environment is cold lower to -30°C, battery still can work well as charging and discharging function. 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	6.5kg
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
Operating Temperature Range	
Charge	-22°F (-30°C) to 113°F (45°C)
Discharge	-22°F (-30°C) to 140°F (60°C)
Recommended	59°F (0°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	Female Copper Insert M8 (M8/mm)



COMPLIED STANDARD

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

INTELLIGENT BMS FUNCTION

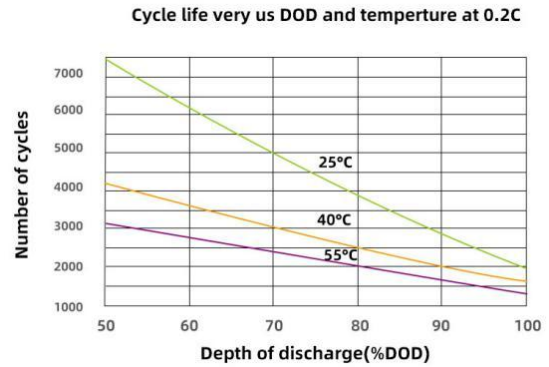
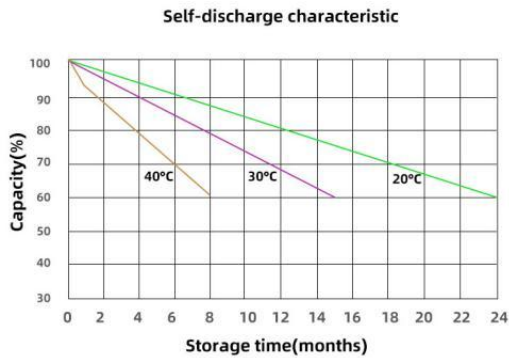
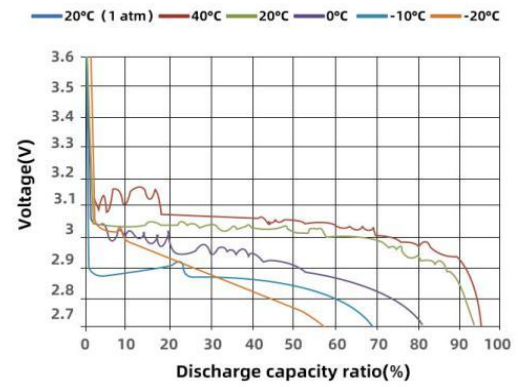
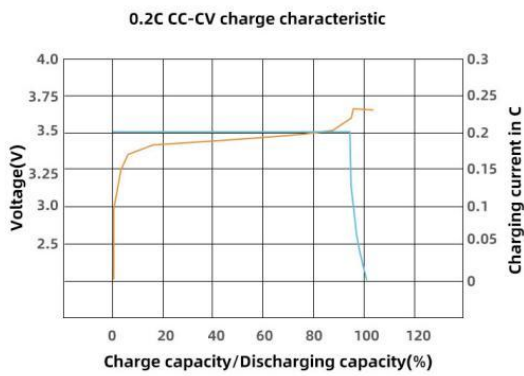
- Overcharge detection function
- Over discharge detection function
- Over current detection function
- Short detection function
- Temperature detection function
- Balance function

Low Temperature self-heating

The battery designed to used in the low temperature environment (0~ -30°C), Built-in self-heating system, which can keep the battery run normal when other battery "go on strike"

APPLICATIONS

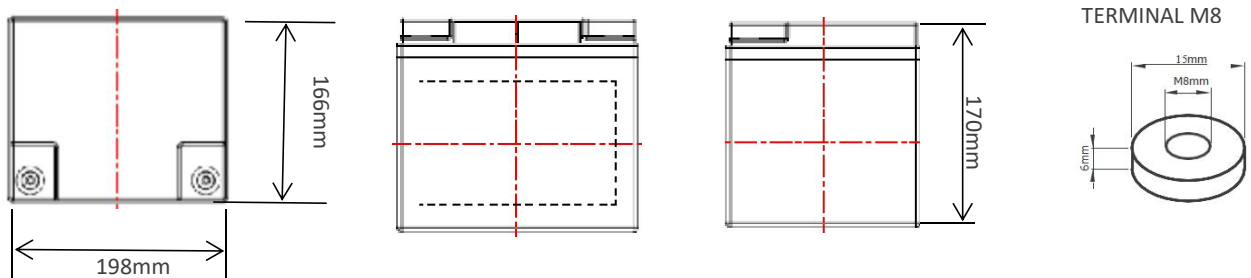
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BENEFITS OF LITHIUM

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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