

Litech 12V 6Ah LiFePO4 Lithium Battery
HR series - High rate for power start

Designed for power sport and motorcycle starter especially, the revolutionary KH-LFP-HR series Battery intelligently monitors its status by press button. 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 6 Ah provides 5 X the lifespan than your typical SLA battery. This battey can offers a very high level of power for easy start of internal combustion engine and embeds high-performance Lithium Iron Phosphate cells designed to provide extreme discharge current flow.



SPECIFICATIONS

Nominal Voltage	12.8V
Rated Capacity	6AH @1C to 9.6V
Stored energy	76.8Wh
Cycle life@100%DOD	2000 Cycles
Approx. Weight	1.05kg
Internal Resistance	≤80.0 m Ω
Max. Continuous Charge Current	3 A
Max. Continuous Discharge Current	6 A
CCA(Cold cranking Amps)	360A
Charge Cut-off Voltage	15.2V
Discharge Cut-Off Voltage	9.6V
Dimensions	L150mm × W85mm × H107mm
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	Outside M6 Terminal



COMPLIED STANDARD

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

INTELLIGENT BMS FUNCTION

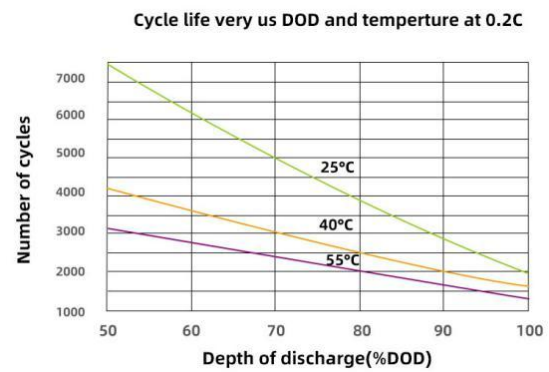
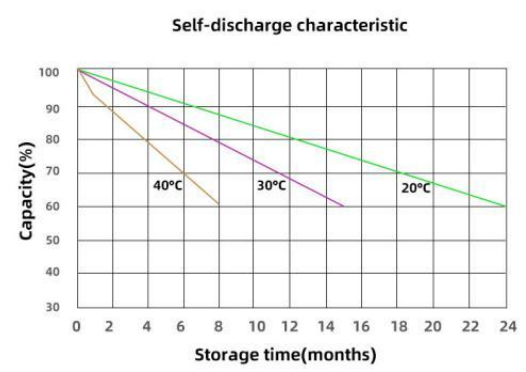
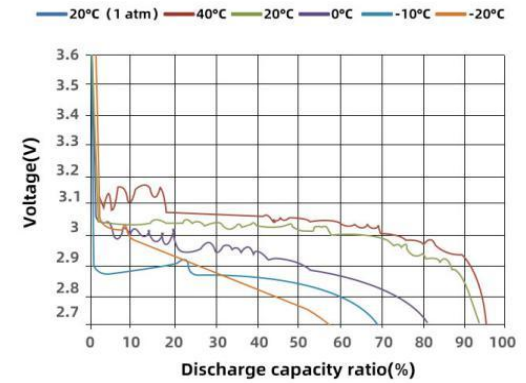
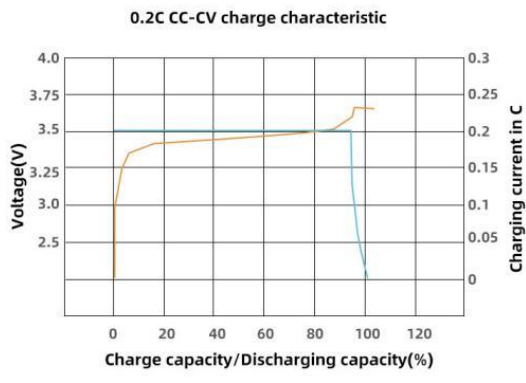
- Overcharge detection function
- Over discharge detection function
- Over current detection function
- Short detection function
- Temperature detection function
- Balance function

High rate cranking current for motorcycle

- CCA(Cold cranking Amp) : **360A**

APPLICATIONS

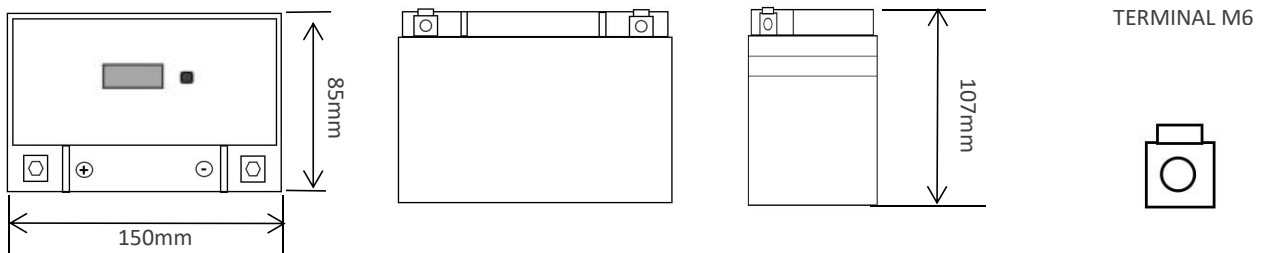
Mobility Transport Sports & Recreation



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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