



DATA SHEET

KH-LFP-BT-1250

KEHENG 12V 50Ah LiFePO4 Lithium Battery BT series - Bluetooth Enabled 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. Bluetooth® communication capability for battery status through KH mobile app(including the voltage, capacity, temperature, etc status). 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	8kg
Internal Resistance	≤30.0 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	32°F (0°C) to 113°F (45°C)
Discharge	14°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	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

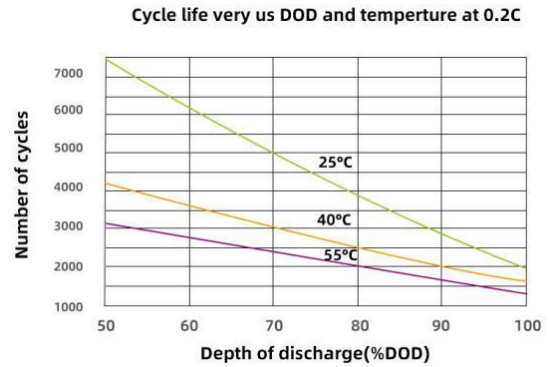
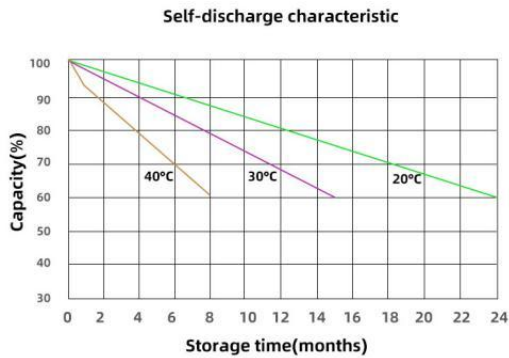
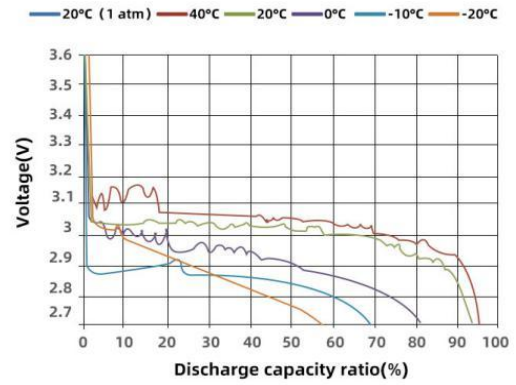
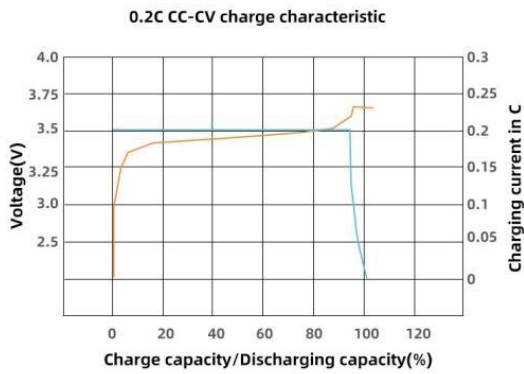
BLUETOOTH® ENABLED

Monitor the State of Charge (SoC), State of Health (SoH), current, capacity, temperature, number of cycles, and voltage levels of the battery and individual cells from Mobile APP.



APPLICATIONS

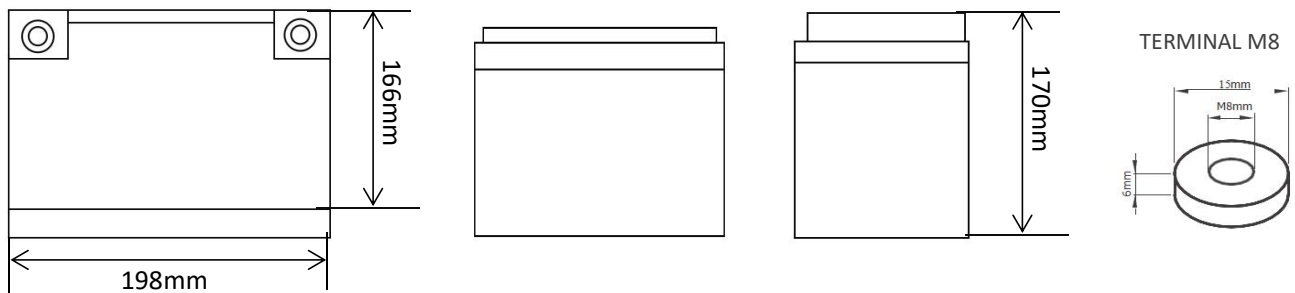
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BENEFITS OF LITHIUM

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



Keheng New Energy Technology (shenzhen) Co.,Ltd

Floor 8, D8 Bldg, Lang kou Industrial Park, Long hua District, Shenzhen, china

Tel: +86 0755-21044322 Fax: +86 0755-21044322

Website: www.keheng-battery.com

Email: info@keheng-battery.com

