



12v 200ah lifepo4 leisure battery

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All warranties are effective from the date of purchase by the end user. Correct installation and usage as specified in the product manual are required to maintain warranty eligibility.

Please take time to carefully review the manual prior to setup and operation to ensure proper use and long-lasting performance from your LiTime system. We're here to support you throughout the warranty periods.

The auto self-heating function will be activated by the BMS when the battery is connected to a charger at -20°F to 5°F (-4°C to 41°C). The heating will be automatically activated once the charging temperature drops below 0°C (32°F). It will stop when the battery temperature reaches 5°C (41°F).

These two series primarily address the charging issues of LiFePO₄ lithium batteries in cold weather. The main difference between the Low-Temperature series and the Self-Heating series lies in the presence of an automatic Battery Management System (BMS) heating module. The Self-Heating series allows the battery to self-warm without any action required from the user while charging.

However, the LiTime cold weather batteries will automatically cut-off the charging when the temperature is below 0°C (32°F), and it requires you to take some measures, such as placing the battery in a warm indoor environment, to warm it up to 5°C (41°F) and restore charging capability. Read on LiTime Low-Temperature Batteries VS Self-Heating Series for more information.

Yes. The LiTime 12V 200Ah self-heating LiFePO₄ lithium battery can discharge if it has power while heating. However, we don't recommend discharging during the heating process, as it may harm the performance and lifespan of the battery.

External heating only heats the casing and does not heat the battery cells. In conditions of -20°C, after external heating for two hours, the battery cells temperature rise to 5°C, but the lead-acid casing temperature has risen to 70-80°C.

Yes. LiFePO₄ is an inherently safe chemistry and the most stable lithium-type battery on the market. LiTime lithium cells are UL certified for the highest safety and sustainability standards.

All LiTime LiFePO₄ batteries come with an internal Battery Management System which protects against under-voltage during discharge, over-voltage during charge, over-current during discharge, over-temperature during charge and discharge, and short-circuit protection - protects battery cells from damage. Additionally, LiTime LiFePO₄ Lithium batteries have been tested to be free from the risk of fire, and electric shock in harsh environments.

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The battery can be fully charged in one day (with effective sunshine 4.5 hrs/day) by 800W solar panels. It may take more than one day to fully charge the battery by $\geq 800\text{W}$ solar panels since the duration and intensity of light would be a great factor for their charging efficiency. Besides solar panels, there are 2 more ways to charge.

If the alternator or generator supports DC output, a DC-to-DC charger is needed to connect the battery to the generator; if your alternator or generator supports AC output, please add a suitable battery charger to connect the battery and the generator according to our recommendations. The Recommended Charging Voltage: 14.2V - 14.6V. The Recommended Charging Current: (1) 40A (0.2C): the battery will be fully charged in around 5 hrs to 100% capacity; (2) 100A (0.5C): the battery will be fully charged in around 2 hrs to around 97% capacity.

To charge 12V battery, it is recommended to use 14.6V battery charger. The Recommended Charging Voltage: 14.2V - 14.6V. The Recommended Charging Current: (1) 40A (0.2C): the battery will be fully charged in around 5 hrs to 100% capacity; (2) 100A (0.5C): the battery will be fully charged in around 2 hrs to around 97% capacity.

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