



# Lifepo4 battery 12v 10ah

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GoldenMate 10Ah lithium batteries have a low self-discharge rate and support 100% DOD and 100% SOC, providing better performance and longer battery life. Goldenmate 12V 10Ah lithium battery can run 5000+ cycles, its lifetime can last up to 10 years.

GoldenMate 12V10Ah lithium batteries with built-in 10A battery management system (BMS) to protect batteries from overcharge, over-discharge, over-current, over temperature, and short circuit.

GoldenMate 12V 10Ah LiFePO4 Battery is a perfect replacement for traditional lead-acid batteries since LiFePO4 battery offers high energy density, long cycle life, and excellent safety features. Its low self-discharge rate ensures hassle-free storage for up to 1 year.

GoldenMate 10Ah lithium battery is perfect for fish finders, kids' scooters, LED lights, phones, fans, alarm systems, security cameras, game machines, outdoor camping, laptops, etc.

GoldenMate 12V 10Ah LiFePO4 battery provides the highest-level safety based on CE, ROHS, and FCC certifications. The battery won't burn or explode because of the stable LiFePO4 cell structure. And it doesn't contain any heavy metals or rare metals and is more environmentally friendly.

The GoldenMate 12V 100Ah LiFePO4 batteries can be safely charged between 32°F to 113°F (0°C to 45°C). But when charging under the freezing point, the battery cells may be damaged.

Upon receiving your battery, please note that it may arrive with a low State of Charge (SOC) as a result of the transportation and storage process. To ensure peak performance, we advise promptly charging the battery to prevent over-discharge.

If you intend to store the battery for an extended period without use, we recommend charging it to a SOC 50% and conducting maintenance every three months. These measures will help preserve its functionality and performance in the long run.

It is recommended to store GoldenMate LiFePO4 batteries at 50% state of charge (SOC). If the batteries are stored for long periods, cycle the batteries at least every 6 months. Recommended storage environment: 10°~35° (50°~95°), 45%RH~75%RH

The battery can be fully charged in one day (with effective sunshine 4.5 hrs/day) by 300W solar panels. It may take more than one day to fully charge the battery by  $\geq 300W$  solar panels since the duration and intensity of light would be a great factor for their charging efficiency.



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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) 20A (0.2C): the battery will be fully charged in around 5 hrs to 100% capacity; (2) 50A (0.5C): the battery will be fully charged in around 2 hrs to around 97% capacity.

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