

Should LiFePO4 batteries be kept at freezing temperature?

Therefore, keeping LiFePO4 batteries at freezing temperature is good for long-term battery storage health. However, the battery self-degradation rate should be considered. It is best to charge the battery to 40% to 50% of its capacity to keep it in optimal condition under these circumstances.

Can LiFePO4 batteries be stored in a protection circuit?

Battery management systems are built into several batteries, providing a safe storage option for LiFePO4 batteries. However, when the batteries are kept in a discharged state, the protection circuit should not be used. The protection circuit only applies when the batteries are charged to at least 40% to 50%.

Why is proper storage important for LiFePO4 batteries?

Proper storage is crucial for ensuring the longevity of LiFePO4 batteries and preventing potential hazards. Lithium iron phosphate batteries have become increasingly popular due to their high energy density, lightweight design, and eco-friendliness compared to conventional lead-acid batteries.

How do I protect my LiFePO4 batteries?

It is critical to keep lithium batteries away from sources of heat, radiators, or other heat sources. Chemicals inside these batteries can overheat and explode when exposed to high temperatures for long periods. We really recommend you using a battery box to provide your LiFePO4 batteries a solid protection.

What happens if you remove a LiFePO4 battery?

Any abnormal battery behavior after removal means that it should not be used. Strange behavior includes any odor, liquid leakage, physical deformation, or other abnormalities. Avoid storing LiFePO4 batteries in strong magnetic fields, as these fields can disrupt or damage the lithium-ion battery management system.

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By following the guidelines in this guide--preparing the battery, maintaining the right storage conditions, and avoiding common mistakes--you can keep your battery in top condition, even during extended periods of non-use. With careful storage, your LiFePO₄ battery will be ready to deliver reliable power whenever you need it.

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