

Should a LiFePO4 battery be fully charged before storage?

It is not necessary to fully charge a LiFePO4 battery before storage, as storing a battery at 100% charge for an extended period can harm the battery's long-term health. Charging the battery to 50% capacity before storage is recommended.

3. How Long Will a LiFePO4 Battery Last in Storage?

Do I need to disconnect the LiFePO4 battery system?

Yes, we recommend disconnecting the LiFePO4 battery system when not in use. Only switching off the main switch is not enough. Disconnect the battery terminal cable before storing the battery. If the battery is not unloaded, there will always be small current leakage, which will damage the battery's health or the device connected to the battery.

How do you charge a LiFePO4 battery?

When you turn off and store LiFePO4 batteries, it's highly recommended to charge them to at least 50% of their maximum charge capacity using a lithium charger. This ensures optimal charging when the battery is reconnected and helps to maintain the overall battery condition. The self-discharge rate increases with long-term storage.

What happens if you store a LiFePO4 battery in sunlight?

Storing LiFePO4 batteries in high temperatures or direct sunlight can pose a severe threat to the battery. Extreme temperatures can cause the battery to overheat internally, resulting in unnecessary chemical reactions that could cause uncontrolled battery voltage drop or even battery fires.

Are LiFePO4 batteries safe?

Proper storage ensures that your investment is kept safe. 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.

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.

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