

Lithium-ion battery cabinet storage temperature range





Overview

What temperature should a lithium battery be stored?

The ideal operating temperature range for lithium batteries is 15°C to 35°C (59°F to 95°F). For storage, it is best to keep them in a temperature range of -20°C to 25°C (-4°F to 77°F). Extreme temperatures can significantly affect performance, safety, and lifespan.

How to store lithium ion batteries safely?

1. Storing Lithium Ion Batteries at The Right Temperature. The typical lithium ion battery storage temperature range of a home or storage unit is usually storing lithium batteries safely. The range of safe storage temperatures is wide, as shown in the chart below. However, issues like decreased battery lifespan occur in extreme weather conditions.

What temperature should a battery be stored?

Storing batteries within this range helps maintain their capacity and minimizes self-discharge rates. Storing batteries at temperatures above 25°C (77°F) can accelerate the aging process, while storing them below -20°C (-4°F) may cause irreversible damage.

What temperature should a lithium ion battery be discharged at?

Optimal Discharging Temperature: Avoid discharging lithium-ion batteries at temperatures below -20°C (-4°F) or above 60°C (140°F) to protect their health and prolong their lifespan. Various thermal management systems can be employed to regulate the temperature of lithium-ion batteries during operation.



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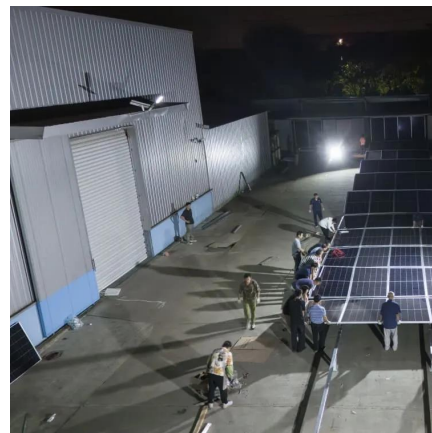
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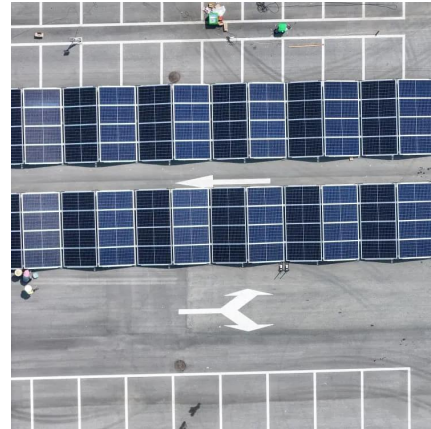
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