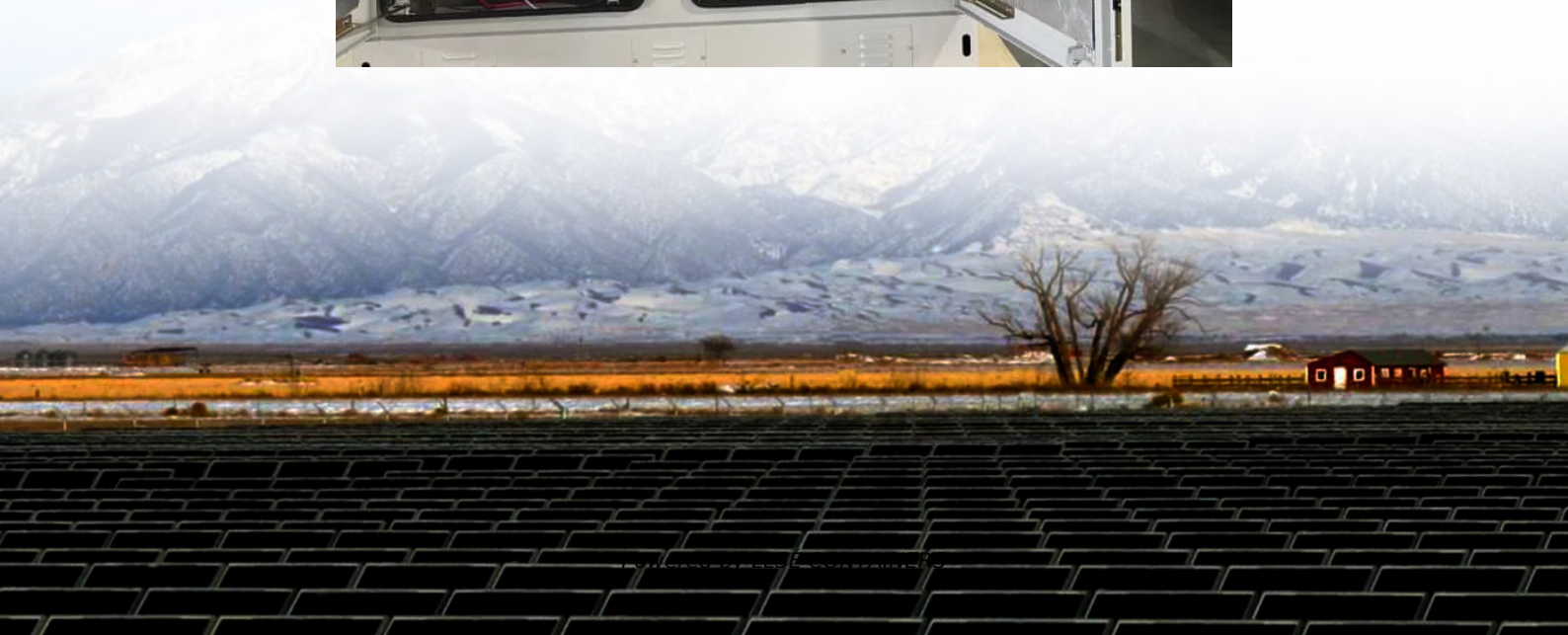


Battery cabinet operating temperature





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.

What temperature should a battery be stored?

For best results, store batteries within the range of -20°C to 25°C (-4°F to 77°F) when not in use. Storing within this range helps maintain its capacity and reduces the self-discharge rate. Above 25°C (77°F): Accelerates the aging process. Below -20°C (-4°F): Can cause irreversible damage to the battery.

What temperature should a lithium battery be charged at?

High temperature charging may cause the battery to overheat, leading to thermal runaway and safety risks. It is recommended to charge lithium batteries within a suitable temperature range of 0 ° C to 45 ° C (32 ° F to 113 ° F) to ensure optimal performance and safety. *The lithium battery maximum temperature shall not exceed 45 ° C (113 ° F).

How does temperature affect lithium battery performance?

Understanding lithium battery temperature range helps predict performance drop at low temperatures. Li-ion batteries may show up to 30% capacity loss below 0°C (32°F). In cold temperatures, like below 15°C (59°F), lithium batteries experience reduced performance. Chemical reactions within the battery slow down, causing decreased power output.



Battery cabinet operating temperature



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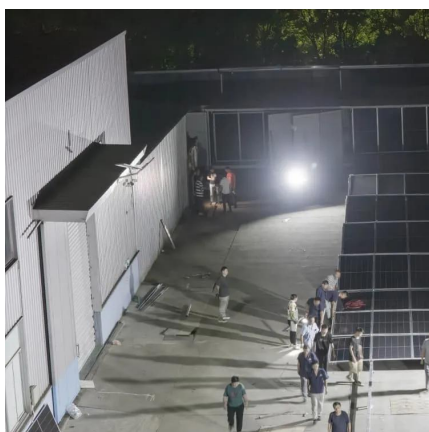
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