



MODERNIZATION SOLAR

# Power tool solar container lithium battery overcharge





## Overview

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What is overcharging a lithium battery?

What is Overcharging?

Overcharging is a phenomenon that occurs when we leave our lithium batteries plugged in for an extended period, typically past the point of full charge. As a result, excess electrical current flows into the battery and causes it to heat up beyond its safe limit.

How to prevent lithium batteries from overcharging?

It is also crucial to avoid exposing lithium batteries to high temperatures as they may become damaged or even explode if overheated. Therefore, store them in cool and dry environments without direct exposure to sunlight or heat sources. Another effective measure in preventing overcharging is by keeping track of the battery charge level regularly.

How to prevent battery overcharging?

Another effective measure in preventing overcharging is by keeping track of the battery charge level regularly. Avoid leaving a fully charged lithium battery plugged into a charger for prolonged periods since continuous charging will damage its lifespan.

What is overcharging a battery?

Overcharging occurs when a battery continues to charge even after reaching its full capacity during the charging process. For instance, if a battery is rated at 3.7V, its full charge voltage typically stands at  $4.2 \pm 0.05$ V. However, if the charging voltage surpasses 4.25V, it crosses into the realm of overcharging.



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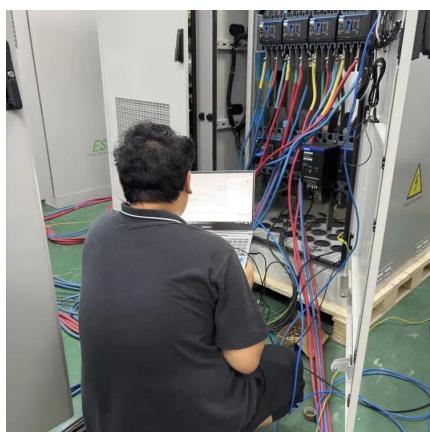
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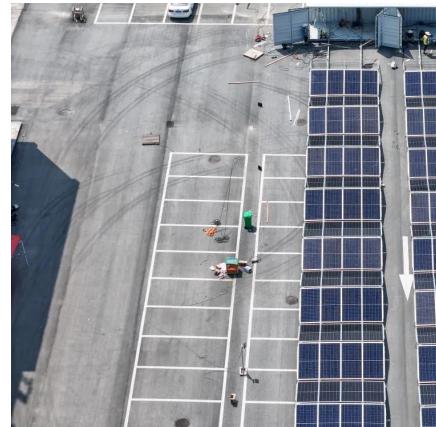
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