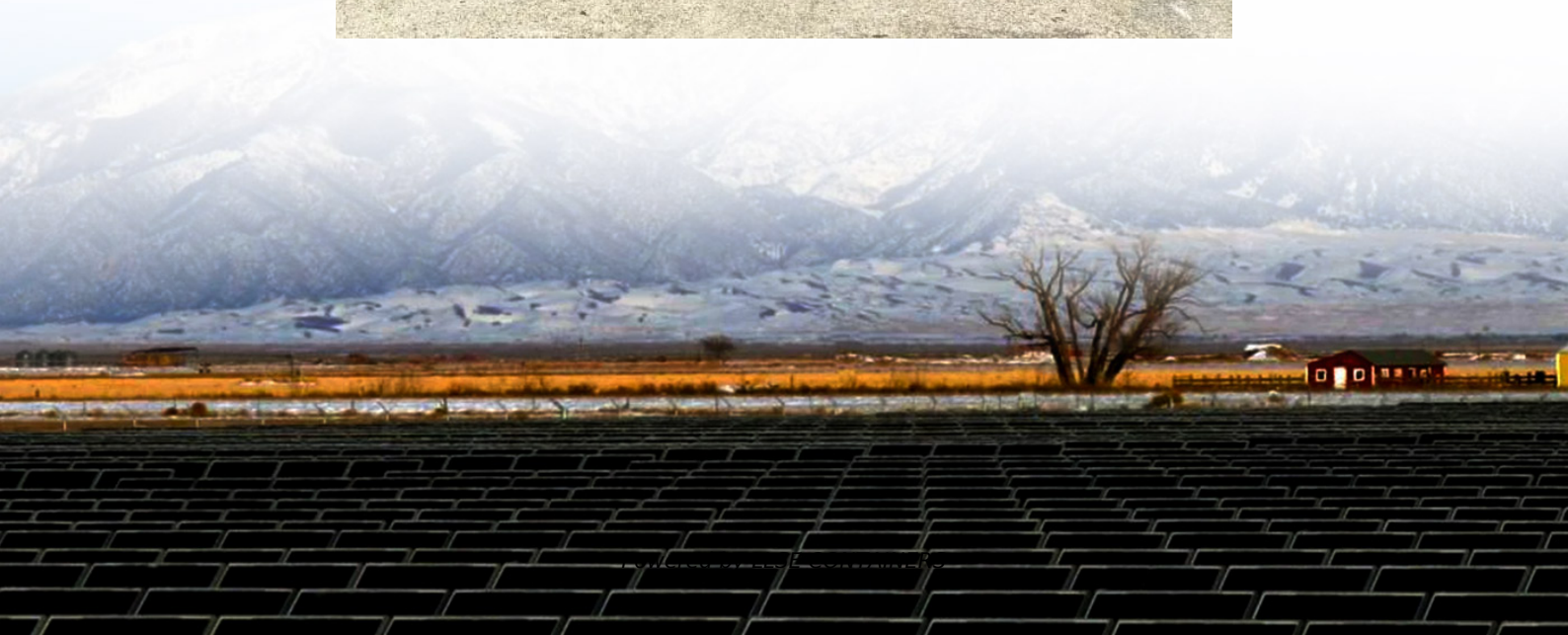


# **Classification of tool batteries**





## Overview

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What are power tool batteries?

Power tool batteries have come a long way from bulky nickel-cadmium (NiCd) packs. Today, lithium-ion (Li-ion) technology dominates the market, offering greater power, longer runtimes, and lighter weights. This guide dives into the world of power tool batteries, exploring different chemistries, voltage platforms, amp-ho.

What is battery classification?

Battery classification evolves beyond basic chemistry into multidimensional groupings encompassing energy architecture (solid-state vs liquid-electrolyte), application-specific durability metrics, and circular economy parameters.

Which chemistry is best for power tool batteries?

However, they had a higher self-discharge rate and were susceptible to damage from overcharging and overheating. Lithium-ion (Li-ion): Li-ion is the dominant chemistry for power tool batteries today. They offer the highest energy density, allowing for lighter and more powerful tools.

What is a good charge level for a power tool battery?

A charge level around 40-60% is ideal for storage. Use the Correct Charger: Always use the manufacturer's recommended charger for your specific battery type. Clean Battery Contacts: Periodically clean the battery contacts with a clean, dry cloth to ensure a good connection. The Future of Power Tool Batteries:



## Classification of tool batteries

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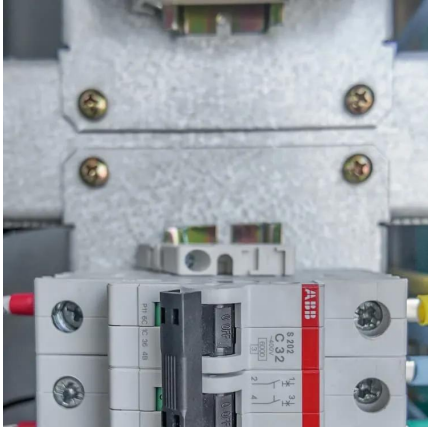


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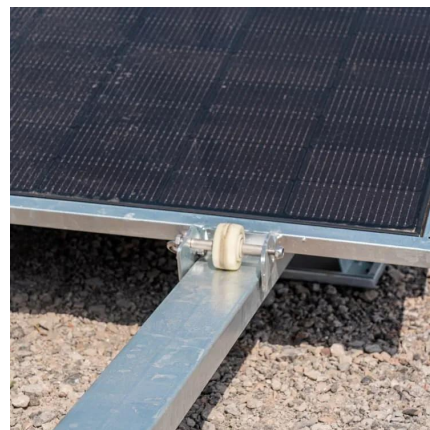


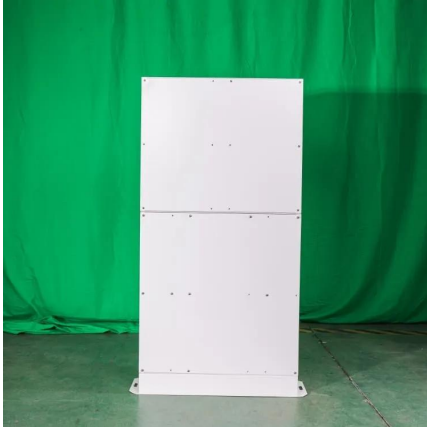
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### **Application and classification of lithium batteries for electric tools.**

Lithium ion batteries for electric tools are a type of high-energy, high-performance rechargeable battery. Gradually replacing traditional nickel cadmium batteries and nickel hydrogen batteries.





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