

# **Arrangement of lithium batteries for power tools**





## 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.

How do I choose a lithium battery?

Choosing the right cell type and configuration ensures the battery delivers optimal performance and longevity. When designing or purchasing a lithium battery, consider: Application Type: Starter, cyclic, or high-rate discharge. Size Constraints: Ensure the battery fits the intended device.

How do you build a lithium battery pack?

Building a lithium battery pack requires careful planning around voltage, amp-hour capacity, and the intended application. The arrangement of cells in series or parallel determines the overall configuration. To create a 125 Ah, 12.8V battery using 25 Ah prismatic cells: Arrange the cells in a 4S5P configuration.

What are the components of a lithium battery pack?

When you examine a lithium battery pack, the most noticeable components are the individual cells and the circuit board. Lithium batteries are commonly built using three main types of cells: cylindrical, prismatic, and pouch cells. Each type offers unique advantages, depending on the application.



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For example, power tools typically run for about an hour before needing a recharge, whereas scooters must provide longer run times to meet user needs. Configuring ...

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