

# **Are 20v and 24v lithium battery packs the same**





## Overview

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Lithium-ion batteries are not universally interchangeable because they vary in voltage, capacity, size, and connector design. While some batteries may fit multiple devices, key differences can impact performance and safety. Are all 20V batteries interchangeable?

Furthermore, some people asked are all 20v batteries interchangeable. The answer is no. Even though the batteries might have the same voltage, they can be different in other aspects. The most notable difference is probably the capacity or Ah (ampere hour). Are Dewalt's 20v batteries interchangeable?

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What is the difference between a 24v and 18/20v battery?

The "24" V systems (really 22) use six cell battery packs. 18/20 V use 5. That means for the same quoted ampere-hour number, the 22V battery will have 20% more watt-hours. One of the nice things about Li-Ion batteries is that they can provide very high current.

Can I use a 20 volt battery?

No, not without intervening circuitry to step down the voltage to 20 volts. You can generally use a higher capacity battery (that is one with more amp hours and thus run time) but the battery itself has to be 20 volts. Higher voltages will destroy the tool.

Are DeWalt 20V batteries interchangeable?

Dewalt 20v batteries are not interchangeable with other brands. These are only brand-specific and designed to fit into Dewalt's power tools. The 20v Dewalt batteries can be interchangeable with an 18v whole line of tools.

Are Milwaukee batteries interchangeable?

Generally. Milwaukee batteries are not interchangeable. Their size, shape,



connectors, and voltages are designed to fit only the specific Milwaukee power tools. If you try to use them forcefully, it can also harm the battery and tool. You can use the particular cross-band adaptor to replace the battery with the other brand.

What are interchangeable batteries?

Interchangeable batteries are those that are compatible with multiple tools, meaning they can easily be swapped out and used with different tools in the same range or brand. Before purchasing a replacement battery, it's important to know which batteries are interchangeable so you can maximize efficiency.



## Are 20v and 24v lithium battery packs the same

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### [Are Power Tool Batteries Interchangeable? What to Know?](#)

While the power tools' lithium batteries of the same voltage can be occasionally interchangeable within the same brand, this convenience doesn't negate the need for battery replacements.

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### [VEVOR Lithium Battery Power Stations](#)

Battery packs like the 20V 4.0Ah lithium-ion battery are also constantly praised for their high output, long battery life, and comprehensive safety features. Products are consistently noted

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### [Lithium Battery Packs by the Numbers](#)

Lithium Battery Packs by the Numbers What do these numbers mean? Looking at the label of any lithium based battery you will see a set of numbers that tell you what is inside. The first ...

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## Comparing Power Tool Battery Specs - Watt-Hours vs Amp-Hours

When only talking about batteries of the same working voltage, such as comparing one 18V system against another 18V or 20V Max system, things are easy and simple. But ...



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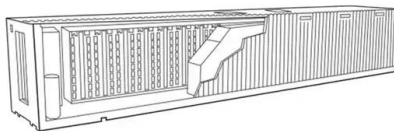
**LPR Series 19'  
Rack Mounted**



## What 20v batteries are interchangeable?

The different sizing of the cordless battery slot itself causes each brand to have its own battery pack size even though they tend to have the same voltage. The Porter-Cable and Dewalt for ...

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## What Cordless Tool Batteries are Interchangeable?

Some cordless tool batteries are interchangeable within the same brand and voltage. Interchangeable batteries often work between similar tool types and models. Cordless tools ...

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## 18 Volt vs 20 Volt vs 24 Volt : r/Tools

20 and 18 V systems are the same, it's just the way Dewalt and Porter Cable initially distinguished between 18V nicad systems and lithium ion systems. 24V is probably different, ...

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## How Many Cells in a Lithium Battery Pack? A Complete Guide to ...

The arrangement and number of cells impact the battery pack's overall capacity and performance. Users should consider these factors when selecting or building a battery ...

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## [Can You Swap Lithium Ion for Nicad Batteries?](#)

A. Senior editor David Frane responds: The motor can't distinguish between power from a nicad battery and power from a lithium-ion battery. And because cordless tools are ...

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## [18 Volt vs 20 Volt vs 24 Volt : r/Tools](#)

20 and 18 V systems are the same, it's just the way Dewalt and Porter Cable initially distinguished between 18V nicad systems and lithium ion systems. 24V is probably different, but I haven't ...

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## [DEWALT ATOMIC 20V MAX Lithium-Ion Brushless Cordless 1/2 ...](#)

ATOMIC 20V MAX Lithium-Ion Brushless Cordless 1/2 in. Drill Driver with 20V MAX Compact 3.0Ah Battery Pack Questions & Answers +9 Hover Image to Zoom

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### [20V Li ION Battery compatibility : r/HomelImprovement](#)

I have a Hyper Tough electric blower that uses the 20V Li ION battery pack. I want to buy a drill that is compatible with the same battery. Looking on amazon I don't even see any other Hyper ...

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### [Are Power Tool Batteries Interchangeable? What to ...](#)

While the power tools' lithium batteries of the same voltage can be occasionally interchangeable within the same brand, this convenience doesn't negate the ...

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### [Are All DeWalt 20V Batteries Interchangeable?](#)

No, not all DeWalt 20V batteries are interchangeable. While many DeWalt tools use the same 20V battery platform, compatibility can vary depending on the tool's design and ...

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### [Power Tool Batteries & Cordless Tool Batteries](#)

With so many replacement batteries and cordless tool battery packs available, it's easy to find the right type for your needs. Browse a variety of cordless tool batteries compatible from brands ...

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## Upgraded 2 Pack 20v Max 3600mAh Replace Battery for Black ...

2 Pack 3600mah Lithium-Ion Replacement Battery for Black& Decker LBXR20 LB20, LBX20 Cordless Tool Battery This Battery is Designed for Black& Decker 20V Max ...

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## [What 20v Batteries Are Interchangeable? .. Battery Tools](#)

Even though they all have the same voltage, each manufacturer has its own battery pack size due to the different sizing of the cordless battery slot. Thus, you should be aware of the different ...

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## Power Tool Battery Compatibility Chart: Everything You Need to ...

Generally, similar battery codes or voltage ranges mean compatibility between the battery and power tool. In some cases, a particular battery may work on a tool, but with a ...

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## [What 20v Batteries Are Interchangeable? .. Battery Tools](#)

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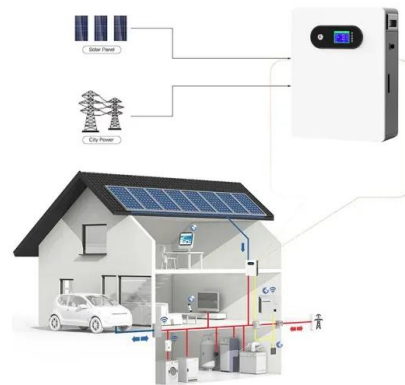




### [Power Tool Battery Compatibility Chart](#)

The adapters are usually plastic with the pins for one manufacturer's battery on the bottom and for a different manufacturer on top. This changes the balance of the tool ...

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### [Power Tool Battery Compatibility Chart](#)

Check it out to find out which batteries can be interchanged between different brands and models. Power Tool Batteries are only compatible with the same brand (brand ...

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### [Are Lithium-Ion Batteries Interchangeable?](#)

Lithium-ion batteries are not universally interchangeable due to differences in voltage, capacity, chemistry, and design. While some batteries may fit multiple devices, using ...

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