

How big a soldering iron should I buy for a lithium battery pack





Overview

The power of the soldering iron should be slightly larger, preferably 60W or more, don't use a pointed soldering iron tip, the contact surface of the pointed soldering iron tip is too small, it is better to use BC or K soldering iron tip. Do you need a soldering iron to solder lithium batteries?

To solder lithium batteries properly, you need a very high-power soldering iron. This may seem paradoxical at first, but a high-powered soldering iron is able to perform soldering operations much quicker, resulting in less overall heat being imparted into the cells from the hot solder.

Do I need a soldering iron to build a battery pack?

Whether you are building a battery pack with a soldering iron or using a spot welder, you are going to need a soldering iron. While we do cover how to build a battery pack from 18650 cells using spot welding vs soldering methods, we strongly recommend going the spot-welding route.

How much power do you need to solder a lithium battery?

To solder a lithium battery, you're going to need at least 100 watts of power at the tip. Having triple-digit watts at your disposal is required to be able to get in there, form an excellent connection, and get you- quick. It may seem counter-intuitive, but the best soldering iron-to-solder lithium-ion batteries is going to be the hottest one.

What happens if you solder a lithium battery?

The problem with soldering lithium batteries is that the heat from the soldering process damages the cells to some degree. Not only does it damage the cells, but it damages the cells to an inconsistent degree in most cases. This can cause the battery pack to come out of balance later on.

How do you solder a battery pack?

Step 1: Disassemble the battery pack, if you need to, so you can get to the



cells. Step 2: Clean the cell ends so that when you solder, you will be able to make a secure, strong connection. Step 3: Turn on the soldering iron and allow it to heat up all the way.

What size soldering iron do I Need?

If you're soldering larger components, especially ones with heat sinks (like voltage regulators), or doing a lot of soldering, you'll probably want a 25 or 30 Watt iron. For soldering larger things like 10 gauge copper wire, motor casings, or large heat sinks, you may need upwards of a 50 Watt iron or more.



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[Top 8 Best Battery Powered Soldering Irons , PCB Tool Expert](#)

This particular model has a rechargeable lithium-ion battery that provides up to 45 minutes of soldering. This equates to about 100 solder joints. It is capable of reaching temperatures from ...

[Which soldering iron \(watts\) do you use for making battery packs](#)

It is more effective to have a soldering tip with lots of thermal inertia (mass) than to just have high power. The tip temperature will remain much more stable in use in the former ...



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To be able to solder lithium batteries, you will need an extremely powerful soldering iron of 100 watts or more. A high-wattage soldering iron can



solder much faster than a cooler-running ...



[Which soldering iron should I get? \(I am a beginner\)](#)

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You need a really powerful iron, 100 or 120 Watts with a wide screwdriver-like tip and you need to let it get really hot, the hotter the better. Place the tip of the iron onto the pole, then "push" the ...

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