



Connect batteries in series

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When powering up your DIY electronics project, understanding how to wire batteries in series can be a game changer. This simple wiring technique increases the overall voltage output — pretty much — powering up your power supply!

In this article, we're tackling everything from the basics of battery wiring to safety tips and troubleshooting advice. By the time we're done, you'll have all the know-how you need to wire batteries in series like a pro.

When discussing series wiring, I'm referring to connecting one battery's positive terminal to another's negative terminal. This configuration essentially increases the voltage while keeping the current (measured in amps) consistent.

But here's something crucial to remember: While this setup boosts your voltage, it doesn't increase your overall capacity or run time — that stays constant across all your batteries.

When it comes to wiring batteries in series, there's one thing I can't stress enough: SAFETY FIRST. It's not just a cliché phrase; it's your lifeline when dealing electricity.

No matter how carefully you plan, there's always the potential for a hiccup or two when wiring batteries in series. Don't worry; I'm here to help you navigate common issues and their solutions.

A: Wiring in series is often done to increase the voltage to meet the requirements of a specific device or application's requirements without buying a higher voltage rating battery.

A: Technically, you can keep adding batteries to increase the voltage, but there's a practical limit. Too much voltage can be dangerous and damage connected devices or systems.

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Web: <https://sumthingtasty.co.za/contact-us/>

Email: energystorage2000@gmail.com

WhatsApp: 8613816583346

