



# Parallel connecting batteries

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What is a battery bank? No, battery banks are not some financial battery establishments. A battery bank is connecting two or more batteries together for a single application. You might ask, what does this accomplish? By linking batteries together, you can increase the voltage, capacity (AH / Wh), or both.

When you need more power, you can construct a battery bank using widely available batteries. For instance, using a common group-size battery such as a group 24, group 27, group 31, or golf cart GC2 group size is much more affordable than purchasing a heavy group 4D or 8D battery for your RV, camper, trailer, or boat.

The first thing you need to know is that there are three primary ways to successfully connect batteries: The first is via a series connection, the second is called a parallel connection, and the third option is a combination of the two called a series-parallel connection.

To connect batteries in a series, use a jumper wire to connect the first battery's negative terminal to the second battery's positive terminal. This leaves you a positive terminal on the first battery and a negative one on the second battery to use for your application.

To join batteries in parallel, use a jumper wire to connect positive terminals together, and another jumper wire to connect negative terminals together. This establishes negatives to negatives and positives to positives. You CAN connect your load to ONE of the batteries, which will drain both equally. However, the preferred method for keeping the batteries equalized is connecting to the positive at one end of the battery pack and the negative at the other end.

If you have two sets of batteries connected in series, you can wire both sets into a parallel connection to make a series-parallel battery bank. In the images below we will walk you through the steps to create a 24 volts 70 AH battery pack.

In other words, there is no right or wrong method. However, most customers prefer to put their batteries in series first because it allows them to use onboard desulfators more effectively to extend battery life.

In theory, you can connect as many batteries as you want. But when you start constructing a tangled mess of batteries and cables, it can be very confusing, and confusion can be dangerous. Keep in mind the requirements for your application, and stick to them. Also, use batteries of the same capabilities. Avoid mixing and matching battery sizes wherever possible.

AMP Hour is a unit of measure for a battery's electrical storage capacity. A manufacturer will subject the battery to a specific amp draw over a 20 hour timeframe in order to determine the AH capacity. The amp/hr rating can significantly change based on the given load applied for more information see our article: Peukert's

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Law | A Nerd's Attempt to Explain Battery Capacity.

By connecting two or more batteries in either series, series-parallel, or parallel, you can increase the voltage or amp-hour capacity, or even both; allowing for higher voltage applications or power hungry applications.

Connecting a battery in series is when you connect two or more batteries together to increase the battery systems overall voltage, connecting batteries in series does not increase the capacity only the voltage. For example if you connect four 12Volt 26Ah batteries you will have a battery voltage of 48Volts and battery capacity of 26Ah.

To configure batteries with a series connection each battery must have the same voltage and capacity rating, or you can potentially damage the batteries. For example you can connect two 6Volt 10Ah batteries together in series but you cannot connect one 6V 10Ah battery with one 12V 20Ah battery.

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

Email: [energystorage2000@gmail.com](mailto:energystorage2000@gmail.com)

WhatsApp: 8613816583346

