



# Can four 20V batteries connected in parallel with a 12V inverter be used





## Overview

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Can a 12V battery be used in parallel?

It goes without saying (but we'll say it anyway) that you must not mix voltages or chemistries of batteries. If you run a 12v system, only use 12v batteries. The terminal voltage of each battery should also be almost identical when putting in parallel. A difference of 0.1v is ok in most circumstances.

Should you connect a battery to an inverter in parallel?

Many people prefer to connect batteries and inverters in parallel. This is because there is less limitation on how many batteries you can connect to your inverter at once. The other thing to consider is your battery charger. The bigger your battery capacity and overall amperage, the more powerful your battery charger needs to be.

Can a 12V inverter be connected to a 24v battery?

Let's say you have a 12V inverter and try to connect two 12V batteries in series. You would end up inputting 24V to the inverter and cause an overload. This could cause damage to your equipment, at the very least your inverter will shut down to protect itself.

How many batteries can I connect to my inverter?

There is no set limit to how many batteries you can connect to your inverter. But you must understand how you connect your batteries together affects what you can and can't do! For example, connecting your batteries in series will be different to connecting in parallel.



## Can four 20V batteries connected in parallel with a 12V inverter be



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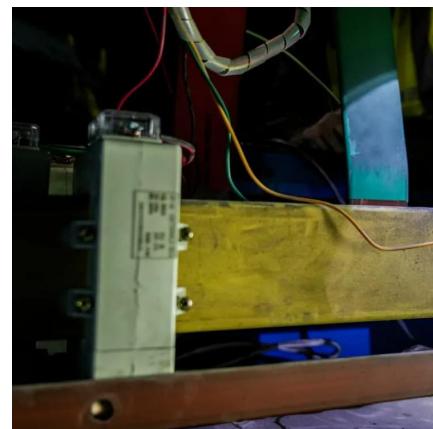
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**Beginner question about connecting multiple batteries**



**together in parallel**

Hi, I soon plan to install the following: 3x multiplus II 10kva in three phase operation. 3x SmartSolar MPPT RS 450,200 solar chargers. 3x 48v batteries (15kWh each) ...

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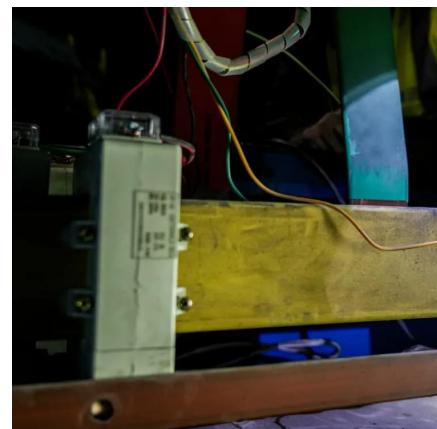
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Putting batteries in parallel adds the Ah capacity, but maintains the voltage. This is common practice for many reasons. Smaller batteries can be easier to handle, are sometimes ...

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