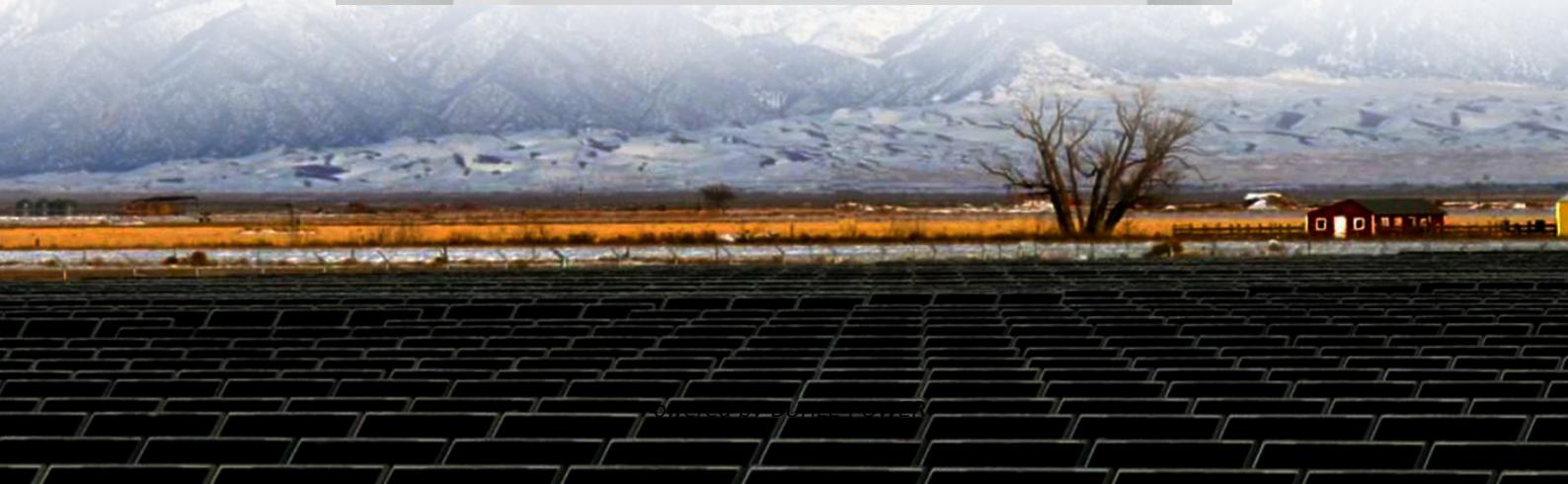




BUHLE POWER

**Solar container lithium battery
packs of the same model can be
used in series**





Overview

Are series and parallel connection of lithium batteries safe?

The series and parallel connection of lithium batteries is a key technology to increase voltage and capacity, but it also contains safety risks. This article will analyze in detail the principles, methods and precautions of series and parallel connection of lithium batteries to help you avoid potential risks and build a battery system correctly.

Can you mix different capacity lithium batteries?

Yes, you can mix different capacity lithium batteries, whether a normal 12V 100Ah battery or a Lithium server rack battery. You can combine different capacity batteries in parallel. You cannot combine different capacity batteries in series. There are a few points you need to consider when wiring in parallel. Let's explore these three points.

How to charge parallel lithium battery packs?

Specific principles must be followed when charging parallel lithium battery packs: Use a matching charger: The voltage must be suitable for the nominal voltage of the individual batteries. The current setting is reasonable: usually 0.2-0.5C of the total capacity after parallel connection.

Can I connect two batteries in a series configuration?

Both batteries in a series configuration must have the EXACT same load, meaning you cannot connect a load to just one battery in the series. If you charge one battery you must charge the other to an equal charge level. If you replace one battery, you must replace the other battery. See the example below for series wiring (Figure 5).



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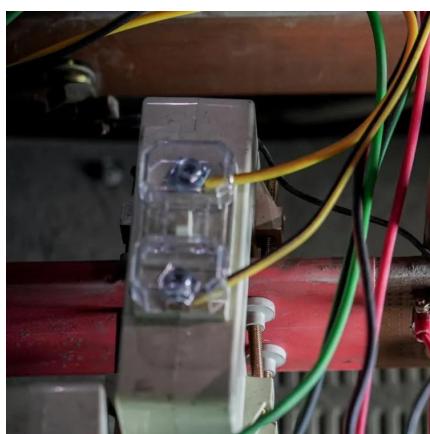


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