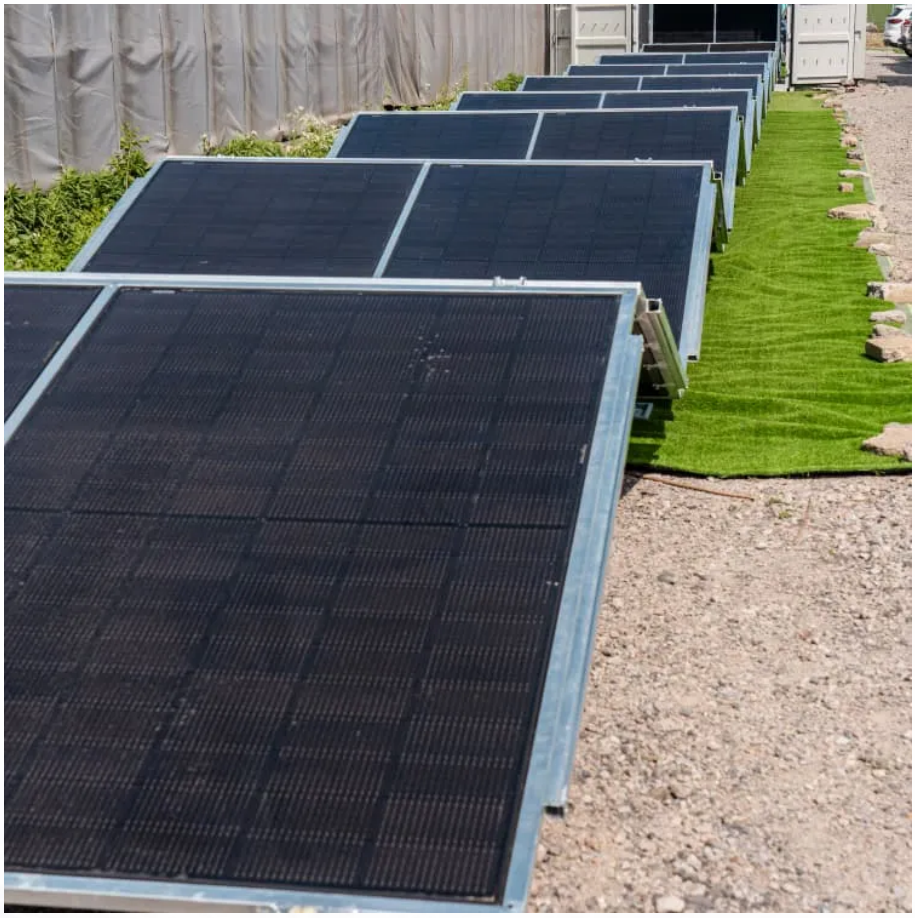
A-Core Container

Battery cabinets connected in series or parallel



Overview

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When using multiple batteries in a project, you have two primary wiring configurations—series and parallel. Each has distinct advantages depending on your needs, whether it’s increasing voltage, maximizing capacity, or balancing both for optimal performance. This guide will break down the key.

Before connecting batteries in series or parallel, it is important to balance them to reduce voltage differences and optimize their performance. For lithium batteries, visit Lithium Battery Balancing. Wiring the batteries up to achieve the necessary capacity is akin to the internal battery wiring.

Deciding between series and parallel battery wiring depends on your voltage and capacity needs. Series increases voltage while keeping capacity the same, and parallel increases capacity while keeping voltage constant. Redway Power emphasizes proper configuration to match system requirements.

Understanding the difference between wiring batteries in series vs. parallel is critical if you have multiple batteries you want to connect together in a larger bank. It’s something that is done all the time, even inside batteries, so it’s important to understand. How you connect your batteries.

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Figure 2 shows two 12-volt batteries connected in series. The important things to note about a series connection are: The battery voltages add together to

determine the battery pack voltage. In this example the resulting pack voltage is 24 volts. The capacity of the battery pack is the same as that.

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