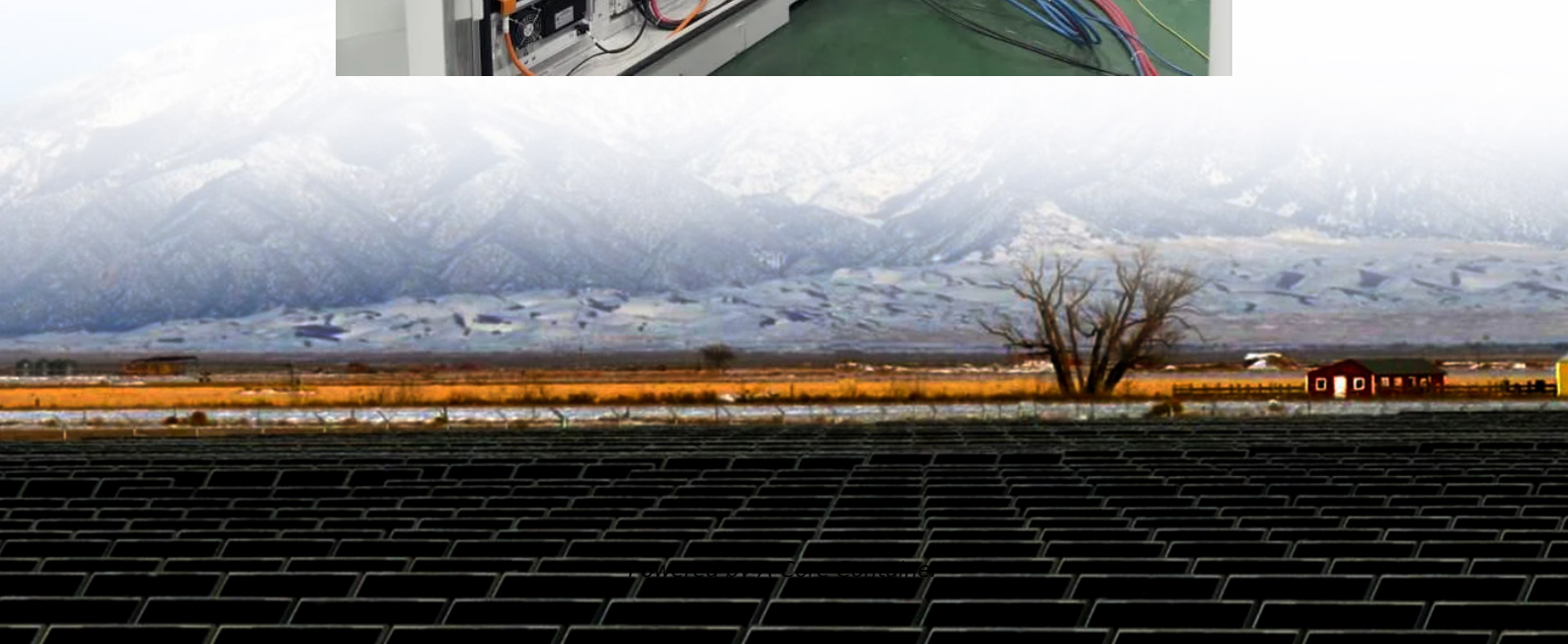


## A-Core Container

# Lithium battery pack combination



## Overview

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In this comprehensive guide, as a professional lithium battery pack manufacturer, I'll explain step-by-step how to properly connect two battery packs in series or parallel to create a safe, higher-performance battery bank for your application. What is a lithium battery pack?

A lithium battery pack is a combination of individual lithium-ion cells. These cells work together to provide the necessary power for various applications. How these cells are connected—whether in series, parallel, or a combination of both—determines the overall voltage and capacity of the battery pack.

What is the voltage of a lithium battery pack?

If each cell is 3.7V, the total voltage of the pack is 11.1V ( $3.7V \times 3$ ). The main advantage of series connections is the increase in voltage, which is necessary for applications requiring higher power. Part 3. What does the P on a lithium battery pack mean?

The “P” in a lithium battery pack is “Parallel.”

How many lithium cells are connected in a 3P battery pack?

For example, a 3P battery pack has three cells connected in parallel. If each cell has a capacity of 2000mAh, the total capacity of the pack is 6000mAh ( $2000mAh \times 3$ ). Parallel connections are beneficial for increasing the battery pack's capacity and thus extending the device's operating time. Part 4. What are the ways to connect the lithium cells?

What does the S on a lithium battery pack mean?

The “S” in a lithium battery pack stands for “Series.” It indicates the number of cells connected in series. For instance, a 3S battery pack has three cells connected in series. If each cell is 3.7V, the total voltage of the pack is 11.1V ( $3.7V \times 3$ ).

What does p mean in a lithium battery pack?

The “P” in a lithium battery pack is “Parallel.” It denotes the number of cells connected in parallel. For example, a 3P battery pack has three cells connected in parallel. If each cell has a capacity of 2000mAh, the total capacity of the pack is 6000mAh (2000mAh x 3).

Why are lithium batteries connected in series?

Lithium batteries are connected in series when the goal is to increase the nominal voltage rating of one individual lithium battery - by connecting it in series strings with at least one more of the same type and specification - to meet the nominal operating voltage of the system the batteries are being installed to support.

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