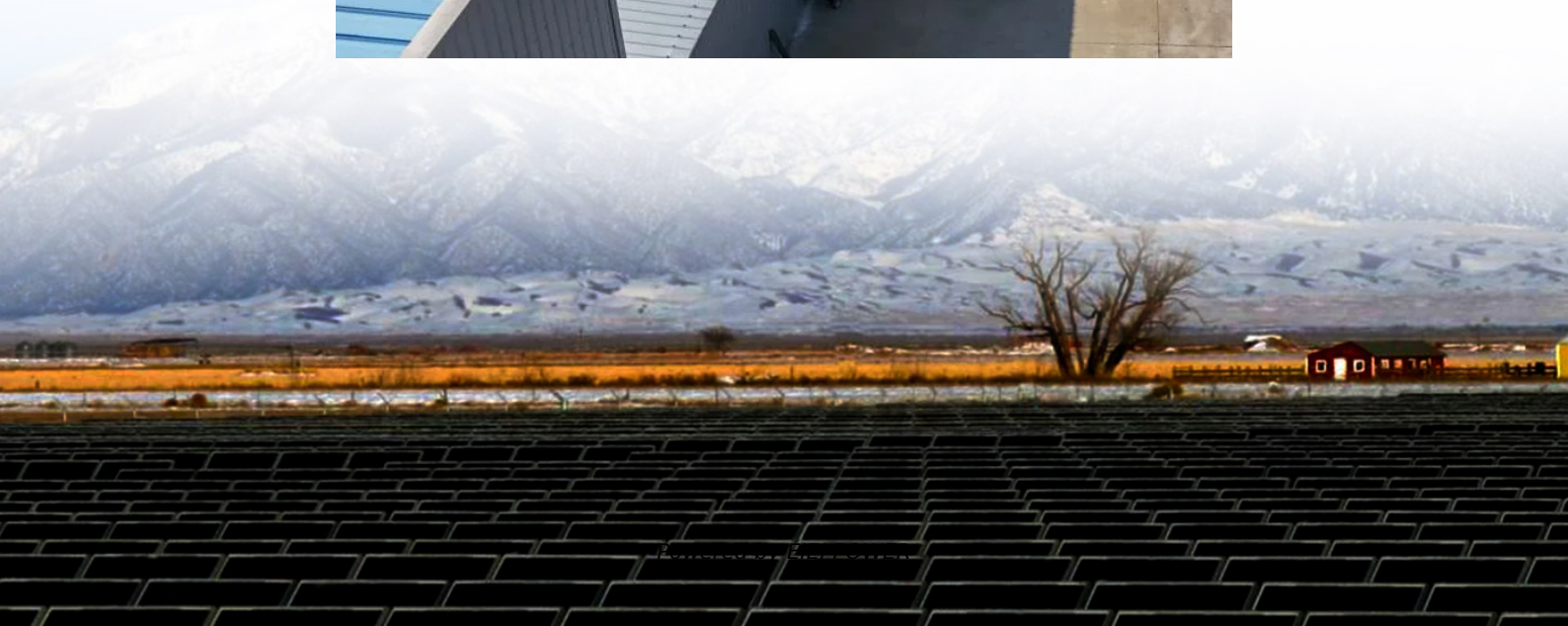


# 4 series 2 parallel 12v lithium iron phosphate battery pack





## Overview

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Can LiFePO<sub>4</sub> batteries be connected in parallel?

For instance, if 4\* 100Ah batteries are connected in parallel, the overall capacity of the battery pack will be 400Ah. In contrast, series connection of LiFePO<sub>4</sub> batteries does not increase the overall capacity of the battery pack; it only increases the voltage output.

What is the difference between LiFePO<sub>4</sub> and 12V batteries?

For instance, if four 12V batteries are connected in series, the output voltage of the battery pack will be 48V. In contrast, parallel connection of LiFePO<sub>4</sub> batteries increases the overall capacity of the battery pack, but the voltage output remains the same as that of an individual cell or battery.

Can You charge lithium iron phosphate batteries in parallel?

Combining series and parallel connections allows for customization of the battery pack's energy (Wh) and power (W) density to suit specific needs, such as in electric vehicles or stationary energy storage systems. By following these guidelines, you can effectively charge lithium iron phosphate batteries in parallel.

What is a series-parallel LiFePO<sub>4</sub> battery?

For advanced applications, like powering electric vehicles or extensive renewable energy systems, LiFePO<sub>4</sub> batteries can be arranged in a combination of series and parallel, known as "series-parallel" configurations. This setup tailors the battery pack to meet specific voltage and capacity demands, ensuring optimal performance and longevity.



## 4 series 2 parallel 12v lithium iron phosphate battery pack

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### **Series vs. Parallel: How to Correctly Connect Your LiFePO4 Batteries**

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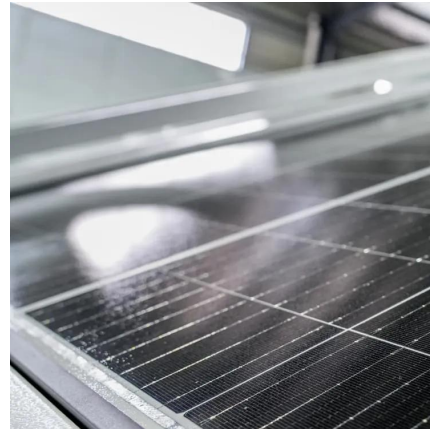
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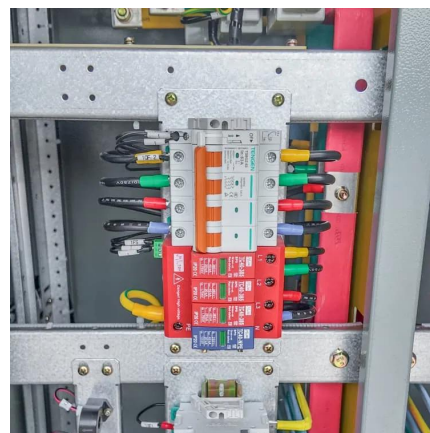
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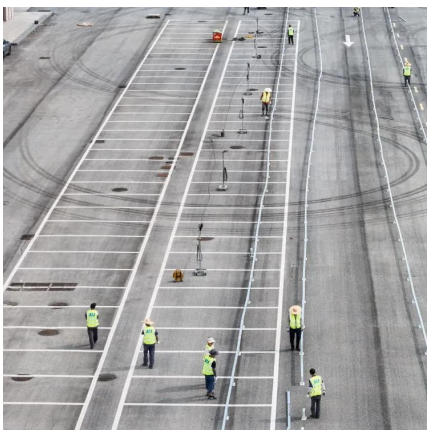
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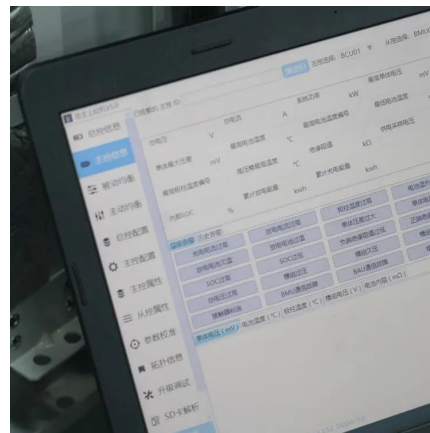


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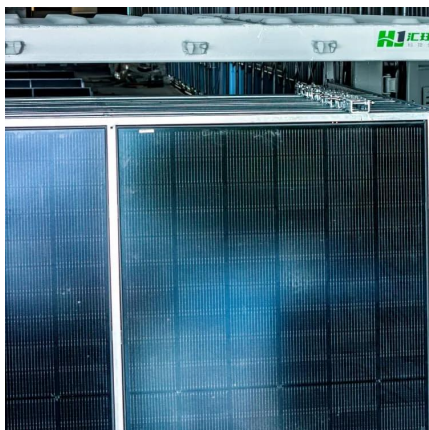


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