

Two lithium iron phosphate battery packs connected in parallel





Overview

Can I connect lithium iron phosphate (LFP) batteries in parallel?

If you have ever sought information about connecting Lithium Iron Phosphate (LiFePO₄ or LFP) batteries in parallel for your application and been left confused by conflicting information, let me clear the buzz and explain why some sources allow us to connect LFP batteries in parallel and others do not recommend it at all.

Can lithium-ion batteries be connected in parallel or in series?

Connecting lithium-ion batteries in parallel or in series is not as straightforward as a simple series-parallel connection of circuits. To ensure the safety of both the batteries and the individual handling them, several important factors should be taken into consideration.

Can LiFePO₄ 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 LiFePO₄ batteries does not increase the overall capacity of the battery pack; it only increases the voltage output.

What happens if two batteries are connected in parallel?

First, we need to understand that when two or more batteries are connected in parallel, the current flowing through each battery is unlikely to be equal. For example, imagine you have a battery system consisting of two 12V 100Ah batteries connected in parallel.



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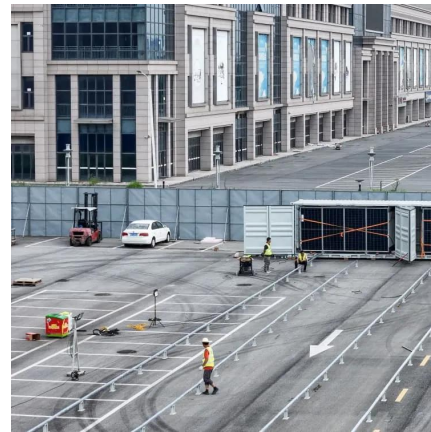


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Introduction1. What is a BMS? Why do you need a BMS in your lithium battery?The lithium battery BMS, its design and primary purpose:2. How to connect lithium batteries in series4. How to charge lithium batteries in parallel4.1 Resistance is the enemy4.2 How to charge lithium batteries in parallel - from bad to best designsLithium battery banks using batteries with built-in Battery Management Systems (BMS) are created by connecting two or more batteries together to support a single application. Connecting multiple





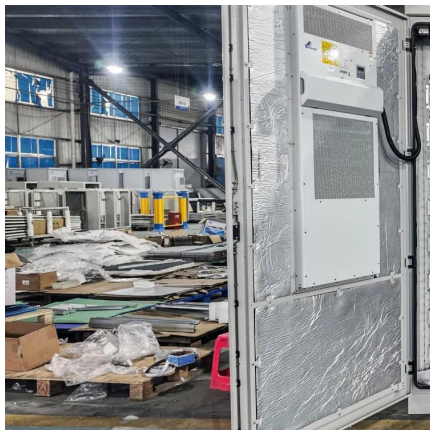
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