



**SolarTech Power Solutions**

**4 groups of 36v lithium  
batteries assembled into 72v**



## Overview

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What are the different types of lithium battery packs?

Lithium battery series and parallel: There are both parallel and series combinations in the middle of the battery pack, which increases the voltage and increases the capacity. Such as 4000mAh, 6000mAh, 8000mAh, 5Ah, 10Ah, 20Ah, 30Ah, 50Ah, 100Ah and so on. Take 48V 20Ah lithium battery pack as an example Lithium Battery PACK.

What is lithium battery pack technique?

The technique used for assembling lithium batteries is called lithium battery pack processing, assembly, and packaging. This process can result in a single battery or a lithium battery pack connected in series or parallel, known as a PACK.

What voltage does a single lithium battery have?

The common single lithium battery cell voltages are: 3.7V LiCoO<sub>2</sub>, 3.6V ternary, 3.2V LFePO<sub>4</sub>, 2.4V lithium titanate. The voltage of a lithium battery pack depends on the number of cells connected in series.

How Lithium battery pack is used for power grid energy storage?

A Lithium battery pack for power grid energy storage is typically connected in series and then in parallel. In parallel connection, a short circuit of a lithium battery cell may cause a short circuit due to large current, which is usually avoided by using fuse protection technology.

Why is a lithium battery a series battery?

Due to the limited voltage and capacity of single batteries, series and parallel combinations are required in actual use to obtain higher voltage and capacity in order to meet the actual power supply needs of the equipment. Lithium battery in series: the voltage is added, the capacity remains the same, and the internal resistance increases.

What happens if a lithium battery is charged in series?

When charging lithium batteries in series, the battery cell with the smallest capacity will be fully charged first, while the other battery cells are not yet fully charged.

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