



# Connecting batteries in parallel

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Connecting two 12 volt batteries in parallel is a common solution for those looking to increase the capacity of their battery system without altering the voltage. This setup is especially popular in applications requiring extended battery life, such as in RVs, marine applications, solar power systems, and off-grid energy storage. This detailed guide will walk you through each step of connecting your batteries in parallel, discuss the advantages, and explain how Himax Electronics can enhance your setup.

When batteries are connected in parallel, the positive terminals are connected to each other, and the same is done with the negative terminals. This type of connection keeps the voltage the same but increases the overall ampere-hour (Ah) capacity. Here's what you need to know:

The max connection in parallel is: no more than 10 pcs. Before connecting in parallel, fully charge the battery and test the voltage of each battery. It is recommended to control the battery voltage difference  $\leq 20\text{mV}$  to extend the battery life.

**Custom Solutions:** We offer customized battery solutions tailored to meet the specific requirements of your applications, whether for leisure, work, or critical backup systems.

Connecting two 12-volt batteries in parallel is an effective way to increase your system's capacity and ensure longer operational times. With the right approach and adherence to safety practices, this setup can significantly enhance the efficiency and reliability of your energy system. Choosing Himax Electronics as your battery supplier ensures that you get not only top-quality products but also comprehensive support to make the most of your energy solutions. For more information about our products and services, visit Himax Electronics online or contact our customer service team today.



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