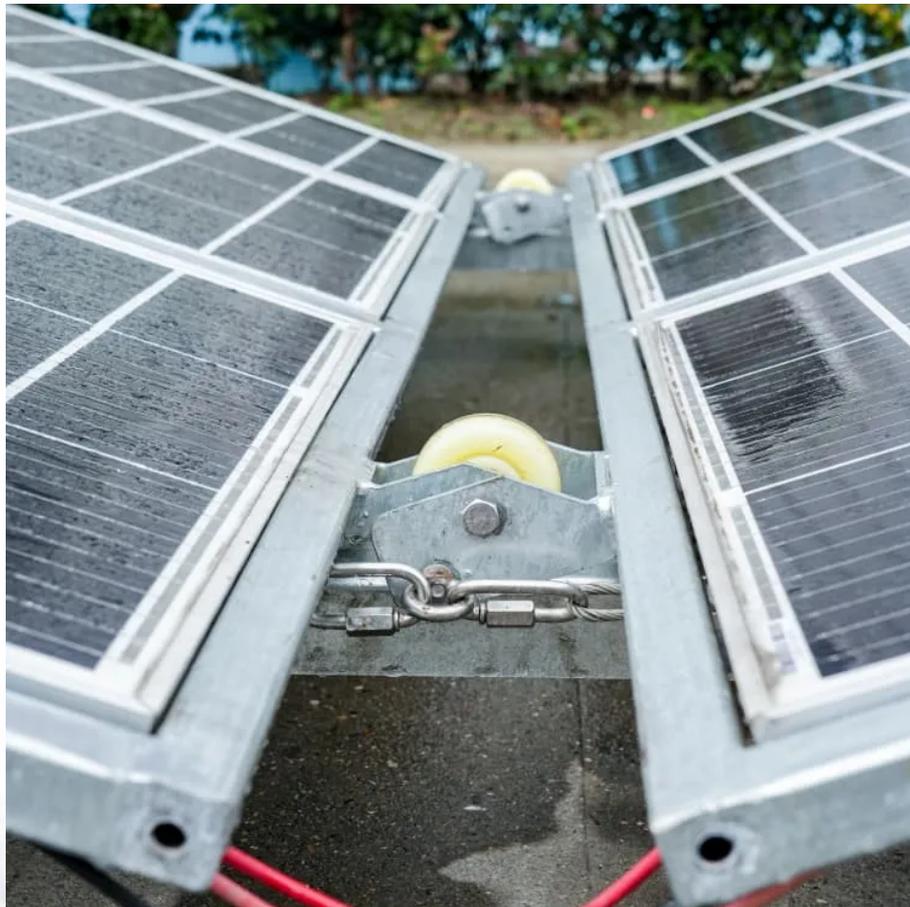


# **Advantages and disadvantages of solar panels in series and parallel**





## Overview

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What is the difference between series and parallel solar panels?

Understanding the differences between solar panels in series vs parallel connections is vital for designing a solar system that maximizes performance and longevity. Series wiring increases voltage and suits high-voltage applications but is more affected by shading.

Are parallel solar panels a bad idea?

Paralleling solar panels isn't necessarily a bad option either, if we build our solar system in series then you'll also need NPPT charge controllers to make the system work, and MPPT charge controllers are generally more expensive, and maybe more of a budget for a small low voltage system.

Do solar panels use series or parallel connections?

The majority of solar panel systems use both series and parallel connections. Your solar panel installer will usually recommend dividing your panels into two groups, wiring each group in series, then connecting them in parallel.

What happens if you wire solar panels in parallel?

When you wire all your solar panels in parallel, the performance of one panel is not dependent on the performance of the other panels. But in a serial connection, if one solar panel is working at a lower capacity, it reduces the whole solar array's performance. This is important in case a panel in a series connection malfunctions.



## Advantages and disadvantages of solar panels in series and parallel

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