



BUHLE POWER

# What does mixed mode mean in solar panels





## Overview

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Can you mix different wattage solar panels?

Then yes, you can mix solar panels that have different wattages. But it is not usually advised because mixing different wattage panels reduces the efficiency and power output. Wattage Mixing Reduces Efficiency and Power A variety of wattage panels has different voltage and amps outputs.

Should you mix solar panels?

If you're thinking about mixing solar panels, here are some practical tips: When panels have different wattages but the same voltage, they work much better together in parallel. For series connections, panels with the same current (even if wattages differ) work best together.

Why do we put solar panels together?

We put solar panels together to increase the solar-generated power. Connecting more than one solar panel in series, in parallel or in a mixed-mode is an effective and easy way not only to build a cost-effective solar panel system but also helps us add more solar panels in the future to meet our increasing daily needs for electricity.

What happens if you mix solar panels?

Mixed solar panels can create uneven electricity flow, which puts extra stress on your system. This can cause more heat and wear, shortening the life of your equipment. Research from the National Renewable Energy Laboratory (NREL) confirms that PV panel mismatch can accelerate degradation rates.<sup>2</sup> 3. More Complicated Setup and Maintenance



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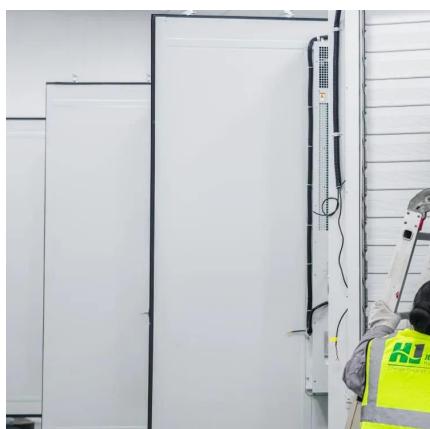


### Mixed Panels

However, adding new solar panels or mixing different types of panels in a single system is not as simple as it may seem. Understanding how mixed panels interact and how they can affect your ...

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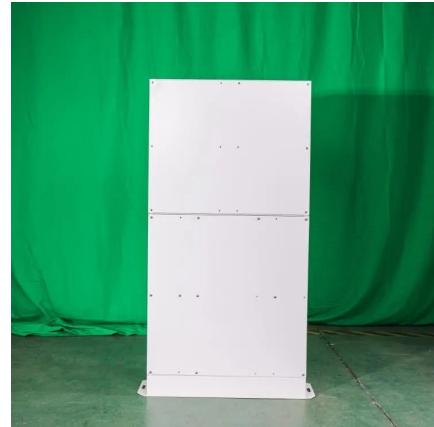
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