# The current of the two photovoltaic panel strings is different

When solar panels are hooked up in series you connect the minus of one panel to the plus of the next panel. The voltages are summed, but the current remains the same:

Wiring PV panels together in series and then the series-strings in parallel with other strings increases both the maximum voltage and the maximum current rating of the photovoltaic array.

I made a series of demo videos showing what happens when you wire mismatched solar panels in various configurations. I"m now trying to explain the "why" behind what we saw. I thought ...

In this page we will teach you how to wire two or more solar panels in parallel in order to increase the available current for our solar power system, keeping the rated voltage unchanged.

This simple hit-and-trial approach shows how different series-parallel combinations affect your system"s voltage and current -- and how only the right arrangement ensures your PV string ...

Strings in parallel need to have their Vmp close to each other but can have different Imp. The string with higher Vmp will run at the lower Vmp generating less power to the ratio of the 2 Vmp. ...

A key aspect of achieving this is understanding how individual components work together, especially the solar modules within a string. This article explains a common challenge in solar design--module ...

That"s exactly what happens when photovoltaic panels share voltage ratings but differ in current output. While voltage represents the "push" of electricity, current determines the actual energy flow.

Learn how to calculate string voltage &  current for solar panel configurations with detailed analysis.

The current flowing through the circuit remains the same as the current of a single panel. For example, ten panels producing 40 volts and 10 amps each would combine to produce 400 volts ...

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