



# Can photovoltaic panels be connected in series in odd numbers





## Overview

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There's really no way to mix odd numbers of the same panels in a series/parallel configuration. That would explain why all of the PV wiring diagrams incorporate an even number of panels. If by odd you mean, 3, 5, 7, etc. What SCC are you considering?

What is the panel Voc. Let's say you have five identical panels, 40V, 10A for argument's sake. Will an MPPT function correctly if you put two sets of parallel panels (2P and 3P) in series, where one "string" is just higher current than the other?

I realize this is the reverse of the way panels are normally configured. 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. How to connect your solar. Can I use an odd number of panels in series-parallel?

I am looking at buying 5x 100w 12v panels: HQST 100 Watt 12 Volt Monocrystalline Solar Panel (100W Compact Design) I'd like to use the Victron SmartSolar controller, SmartSolar MPPT 100/30 Charge Controller I'm wondering how I would connect. I need at least two cells in series to have the voltage for the SPV1040 MPPT IC and would like to use all available space on the board, this is why I have a maximum of 9 cells. Suppose each cell wants to output 1 A.



## Can photovoltaic panels be connected in series in odd numbers



### Can I use an odd number of panels in series-parallel? : r/solar

I'm wondering how I would connect them. Do I need to do them all at parallel at 12v or is there a way to do a higher voltage without having potential shading problems across the array ?

### Parallel-series connection of an odd number of solar cells

In series connection of mismatched current and voltage ratings modules, the minimum current of the module will come into effect while the voltage of each module adds up.



### Odd number of panels and MPPT: parallel -then

Will an MPPT function correctly if you put two sets of parallel panels (2P and 3P) in series, where one "string" is just higher current than the other? I realize this is the reverse of the way ...

### Mixing solar panels - Dos and Don'ts

Wiring Solar Photovoltaic Panels in Series  
Wiring Solar Panels of Different Ratings in Series  
Wiring Solar PV Panels in Parallel  
Wiring Solar Panels of Different Ratings in Parallel  
Mixed Wiring of Solar Panels  
Here is a series connection of solar panels of different voltage ratings and the same current rating: You can see that if one of the solar panels



has a lower voltage rating (and the same current rating) compared to the remaining panels, the output power is lower than in the previous example but the loss is not significant. Things, however, are enti See more on solarpanelsvenue Reddit

## Can I use an odd number of panels in series-parallel? : r/solar - Reddit

I'm wondering how I would connect them. Do I need to do them all at parallel at 12v or is there a way to do a higher voltage without having potential shading problems across the array ?



## [Guide to Connect Solar Panels in Series - PowMr](#)

Learn how to connect solar panels in series and calculate the maximum number of solar panels in a series string for safe, efficient performance.

## [Mixing solar panels - Dos and Don'ts](#)

If the system sizing calculations result in an odd number of panels (for example, 3 or 5), and you are sure you are not going to add more panels in the future, it's practical to use either series or parallel ...



## [Series vs Parallel Question with odd number of panels](#)

You need to match series  $V_{mp}$  within about 5% to be confident the array will perform well. You need to either go parallel or add or drop a panel for 2S2P or 3S2P.



### [Odd number of solar panels question : r/SolarDIY](#)

When you series, the voltage adds and the current is the lesser of any in the string. When you parallel, the current adds but is no more than the least of the string.



### [How To Wire Solar Panels In Series Vs. Parallel](#)

Circuits wired in series work the same way for solar panels. If there is a problem with the connection of one panel in a series, the entire circuit fails. Meanwhile, one defective panel or loose wire in a ...

### **Charge Controller Question: Uneven number of modules in series ...**

All even numbers and some odd numbers (like 9) are just fine. You have a prime number, with no divisors other than itself and 1, and that is what limits your options.



### [Parallel-series connection of an odd](#)



## number of solar cells

In series connection of mismatched current and voltage ratings ...

## Can the number of photovoltaic panels installed be odd

Nearly seven in 10 solar panel owners we surveyed have had no technical problems with their solar panel system since it was installed. Among those who did report a technical fault, inverter ...





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