

Espay Solar Energy S.L.

Photovoltaic panel strings of different brands



Overview

It's ok to have two different strings of panels as long as their combined voltages are within 5% of each other. Remember, in series, volts add, and amperage stays the same. Mixing solar panels of various voltage or wattage, or produced by different manufacturers, is a frequently asked question by most DIYers. Though mixing different solar panels is not recommended, it's not forbidden and things would be ok as long as each panel's electrical parameters (voltage. When setting up an off-grid solar system, one crucial decision is whether to mix and match different types or brands of solar panels within the same string. 12v, tracer bn 4215 controller. Could I add more of these to existing array so that 200 would give more mileage on the same surface area?

I would actually prefer to buy elsewhere than. Can you find the brand and model of the inverters?

How many panels are there now?

How many are you adding?

If you have an inverter with two string inputs and only one string input is used, then you can put something different on the other string input with no penalty. There are limits on the number. Ideally, your solar setup will consist of identical solar panels. But we don't live in an ideal world. What happens when you mix panels of different brands, types, or wattages?

Your main concern. In this post, we'll learn how to size and connect solar panels step-by-step, arranging them in the right series-parallel combination and ensuring they operate safely and efficiently within the inverter's MPPT window — the heart of every well-designed solar system.

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Understanding Photovoltaic Modules, Strings, And Arrays: Key

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To clarify these concepts, I've prepared this introductory guide to PV modules, strings, and arrays-what they are, how they differ, and how they work together. If you spot any inaccuracies, ...

PV String Design Explained: Series, Parallel & MPPT Matching

Learn solar panel series and parallel connections of solar panels, PV string design, MPPT matching to keep your inverter efficient & solar system performing.



Mixing solar panels - Dos and Don'ts

In this picture, you can see that a total of three different types of solar panels are used. Each panel type has its own voltage, current, and power rating.

How To String Solar Panels?

Wondering how to connect your solar panels? This guide breaks down stringing in simple steps.



What are the rules for mixing panels of different wattage or even brand

Panels in series limit the current to that generated by the smaller panel, voltage is the sum of the panel volts. Thus panels in series should have similar current outputs.

Compare 2026's best solar panels by reviews, efficiency & price

To buy the best solar panels, be sure to compare prices, warranties, and efficiencies of different solar panel manufacturers. Here are the top 20 brands for 2026.



MIX & MATCH SOLAR PANELS IN STRINGS: OFF-GRID ...

When setting up an off-grid solar system, one crucial decision is whether to mix and match different types or brands of solar panels within the same string.



While it may seem convenient ...

Mixing Solar Panels: Understanding Mismatched Solar Panels

Yes, you can connect two different brands of solar panels in either series or parallel. The key is to ensure that the key electrical characteristics match as closely as possible - each panel's ...



Best Solar Inverters 2025

We review the best grid-connect solar inverters from the worlds leading manufacturers Fronius, SMA, SolarEdge, Fimer, Sungrow, Huawei, Goodwe, Solis and many more to decide who ...

Adding dissimilar panel string to existing install

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voltage ...



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