

How to calculate the distance between photovoltaic panels

This PDF is generated from: <https://www.sesona.co.za/10-08-24-16263.html>

Title: How to calculate the distance between photovoltaic panels

Generated on: 2026-04-11 18:39:55

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The first step in calculating the inter-row spacing for your modules is to calculate the height difference from the back of the module to the surface. To do that, follow this calculation below:

This spacing is not just about aesthetics or layout -- it directly affects energy output, system efficiency, and return on investment. Improper spacing can lead to inter-row shading, especially during winter, ...

Understand the importance of minimum installation distance for solar panels, calculation methods, and relevant regulations to ensure efficient operation and compliance of solar energy ...

If your system consists of two or more rows of PV panels, you must make sure that each row of panels does not shade the row behind it. To determine the correct row-to-row spacing, refer to the figure ...

So this calculator may raise awareness that the distance between rows can be important and is a factor when deciding where to place solar panels. You are probably reading this page because you are ...

How to calculate the distance between rows of photovoltaic panels to prevent shadows?

The row spacing of a photovoltaic array is the distance between the front and rear rows of solar panels. This spacing is calculated to ensure that the rear panels are not shaded by the front panels, ...

Using this calculator, you can determine the ideal distance between rows based on your location, panel tilt, height, and seasonal sun position, ensuring your solar array performs at its best all year round.

Knowing the minimum angle of incidence of sunlight during the year, it is possible to determine the distance between successive rows of photovoltaic panels. The figure below shows the schematic ...

The calculator now includes a dynamic illustration showing panel tilt, sun elevation, and the projected shadow

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length, so you can see exactly how spacing is determined.

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