

PIENAAR ENERGY (PTY) LTD

How to calculate the standard degree of photovoltaic panels



Overview

The optimal tilt angle is calculated by adding 15 degrees to your latitude in winter and subtracting 15 degrees from your latitude in summer. Panels positioned perpendicular to the sun's rays absorb maximum energy, but the sun's position changes with seasons and your geographic location. Poor tilt angle calculation can reduce. Enter your address to find the optimal solar panel tilt angle for your location. Choose Winter only if you are off-grid and need to maximize charging during short days. Adjusting your panels to the right angle can increase yearly energy yield by up to 20 %. 4 degrees, the latitude of Phoenix. Results are shown in the graph below.

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Solar Panel Tilt Angle Calculator

Scroll to the top of this page to use our Solar Panel Tilt Angle Calculator. Simply enter your address and it will provide the optimal angles for each season, as well as a year-round average angle for your ...

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How to Calculate Solar Panel Tilt Angle?

Here are the steps of how to calculate solar panel tilt angle for a better understanding. 1. Determine the latitude of the installation location. This can be done by searching online for the ...

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GRADE A BATTERY

LiFePO4 battery will not burn when overcharged, over discharged, overcurrent or short circuit and can withstand high temperatures without decomposition.



Solar Panel Angle Calculator

The calculator accepts over 150,000+ cities with auto suggestions worldwide. Alternatively, click the location button to use device location (with permission), or even manually enter your latitude if you're ...

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Solar Panel Angle Calculator

Generate the best tilt for your solar panels with our Solar Panel Angle Calculator for maximum energy efficiency all year round.

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Solar Panel Angle Calculator: The Definitive Guide

To answer this question we modelled a flat roof in Phoenix, Arizona, using Aurora Solar software. We started with flat panels and increased the angle of tilt to the south to see how much ...

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Solar Angle Calculator , Solar Panel Angle Calculator

To get the best out of your photovoltaic panels, you need to angle them towards the sun. The optimum angle varies throughout the year, depending on the seasons and your location and this calculator ...

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Solar Panel Angle & Tilt Calculator (2026 Guide) , Roof Pitch Chart



For a fixed system (95% of residential installs), the Golden Rule is to tilt your panels at an angle equal to your Latitude. This averages out the sun's position over 365 days.

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Solar Panel Angle: Definition, and How to Calculate

A solar panel angle calculator is a tool used to determine the ideal tilt angle for solar panels based on a range of factors such as location, time of year, and required energy output.



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Solar Panel Angle Calculator

Below, we highlight how to figure out the optimal tilt angle for your solar system with our solar panel tilt calculator. Type your address, postal code, or city into the corresponding field.

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