

# **Minimum angle of roof solar panels**





## Overview

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What angle should solar panels be mounted?

In Australia, common roof pitches are  $15^\circ$  or  $22.5^\circ$  – so your modules will most likely be mounted at one of those angles: What if you have a flat roof?

If your roof is totally flat, then I strongly recommend mounting the solar panels at an angle of at least  $10^\circ$ . This is really important because it will allow any rain to easily run off the modules.

What angle should a solar roof be built at?

In a perfect world (well my perfect world anyway) all roofs would be built at the ideal pitch to maximize solar output. However, as mentioned before, most roofs in Australia are at  $15^\circ$  or  $22.5^\circ$ . So how much solar power are you losing if your panels are not at the perfect tilt angle?

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Are solar panels at a perfect tilt angle?

However, if my roof were flat output would be 12% lower compared to having the solar panels at  $28^\circ$ . So the moral of the story is: if your roof is pitched at more than  $10^\circ$ , your solar panels are probably not at their theoretically perfect tilt angle, but they will be close enough.

What is the best roof pitch for solar panels?

People who live at locations measuring 35 degrees should usually select 35-degree roof pitches for optimal performance. Dynamic factors throughout the year, together with sun position, change the effectiveness of the recommended angle. Your location's latitude is the primary factor in determining the best roof pitch for solar panels.



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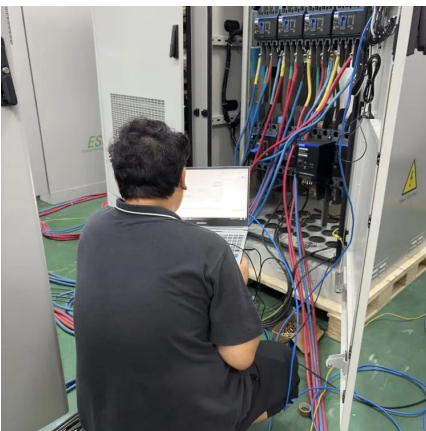


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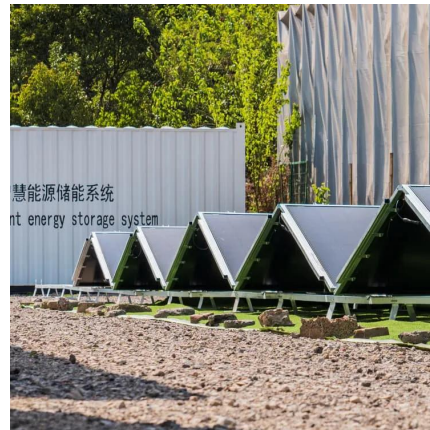


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