

# How many watts of rooftop solar energy





## Overview

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How much solar power can a roof generate?

The amount of solar power your roof can generate depends on various factors, such as your location, roof size and orientation, solar panel efficiency, shading, climate, and the size of the solar system. But our experts can help you find a solution to meet your energy needs.

How many solar panels can fit on a roof?

To calculate how many panels can fit on your roof, divide your open roof space by 20 square feet (or however large your particular solar panels are). For example, if you have 500 square feet of open, available roof space, that's enough space for about 25 solar panels.

How many 400 watt solar panels on a 1000 sq ft roof?

A typical 400-watt solar panel is 79.1 inches long and 39.1 inches wide, taking up 21.53 sq ft of area. If you have a 1000 sq ft roof and you can use 75% of that roof area for solar panels, you can theoretically put 34 400-watt solar panels on a 1000 sq ft roof.

How do I know how much solar power my roof can generate?

At the end of the day, the easiest way to accurately determine how much solar power your roof can generate is to talk with installers. They design solar panel systems every day and will be able to assess your roof's unique features and provide you with a production estimate.



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