

# Solar panels are enough





## Overview

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How many solar panels does a house need?

The average one-bedroom house needs six solar panels, a typical three-bedroom house requires 10 panels, and a five-bedroom house will usually need 14 panels. In each case, the panels will produce enough power to cover 49% of the average household's annual electricity usage – or more, if you don't leave the house very often and use less electricity.

How much power does a solar panel use?

Solar panel power ratings range from 250W to 450W. Based on solar.com sales data, 400W is the most popular power rating and provides a great balance of output and Price Per Watt (PPW). If you have limited roof space, you may consider a higher power rating to use fewer panels. If you want to spend less per panel, you may consider a lower wattage.

How do I calculate how many solar panels I Need?

You can calculate how many solar panels you need by dividing your yearly electricity usage by your area's production ratio and then dividing that number by the power output of your solar panels. To put it simply:  $\text{Number of panels} = \text{annual electricity usage} / \text{production ratio} / \text{panel wattage}$ .

How many kW solar panels do I Need?

As we calculated earlier, the California household needs a 7.2 kW system to cover its electricity needs. A comparable household in Massachusetts needs a 9.9 kW system. So, in less sunny areas like Massachusetts, you might consider choosing highly efficient solar panels to maximize your energy output per square foot.



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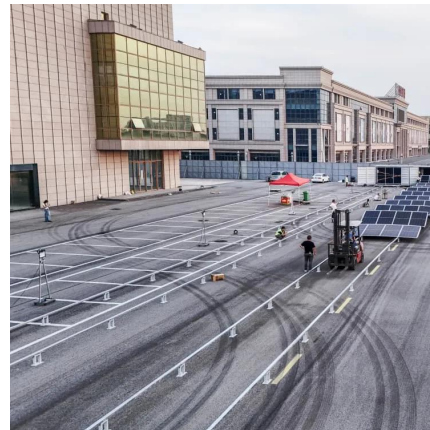


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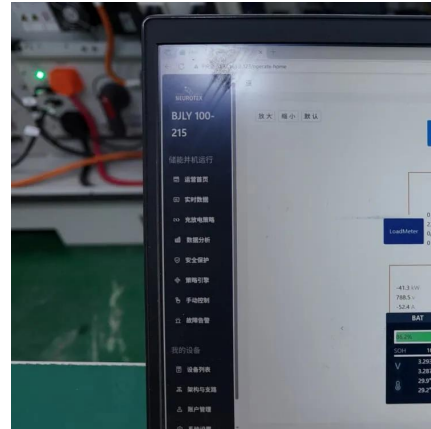
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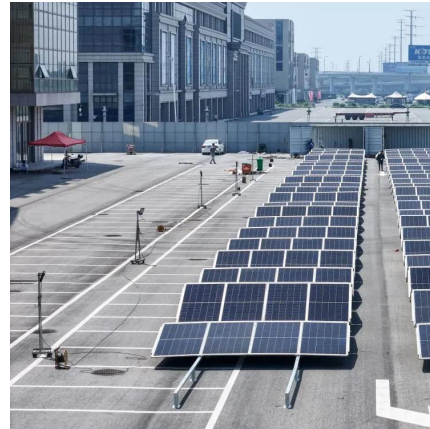
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