



Overview

How many solar panels do you need to power a house?

The goal for any solar project should be 100% electricity offset and maximum savings — not necessarily to cram as many panels on a roof as possible. So, the number of panels you need to power a house varies based on three main factors: In this article, we'll show you how to manually calculate how many panels you'll need to power your home.

How big should a solar panel be?

To get even more power, some solar panels have become slightly larger (about 2.456 m tall for 156 half-cell formats) to reach 600 W or more. This helps you visualize how higher-wattage modules often require slightly larger footprints. Choosing the right panel for your space can boost overall system efficiency and reduce installation complexity.

How much space do solar panels need?

SolarTech's regional production data helps hit that sweet spot for maximum value and performance. Each solar panel requires approximately 17-20 square feet of roof space, including necessary spacing for installation and maintenance. A typical 20-panel system needs 340-400 square feet of unshaded roof area.

How many square feet does a 20-panel Solar System need?

A typical 20-panel system needs 340-400 square feet of unshaded roof area.
Orientation: South-facing roofs provide maximum energy production
Tilt: 30-45 degree angles optimize solar collection
Shading: Minimal obstruction from trees, chimneys, or neighboring buildings
Age: Roofs should have 10+ years of remaining life before panel installation



How big a solar panel is enough for home use

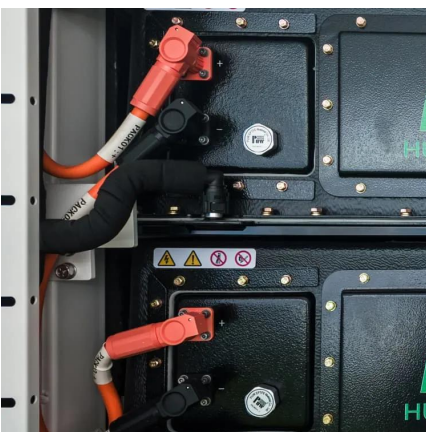
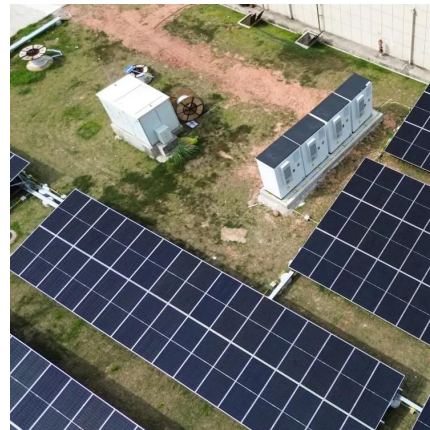


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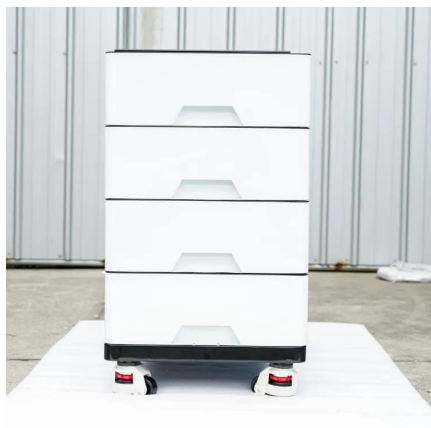


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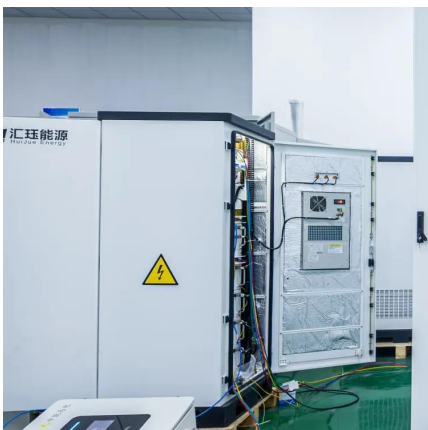
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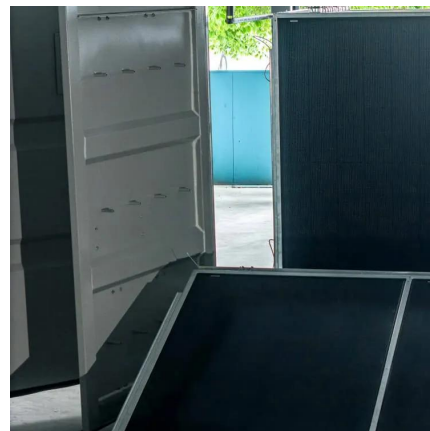


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