

# Solar panels overpower





## Overview

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If a solar panel produces too much power, it can overload the electrical system, causing damage. High wattage can affect battery storage, making it hard to store energy safely. What is excess solar energy?

Excess solar energy is all the electricity produced by your solar panels that you don't consume at that moment. So, if your solar panels generate a large amount of electricity between noon and 4 pm, when your only energy use is a fridge, everything not used by the fridge is excess solar energy.

Why do solar inverters overload?

When your solar panels produce more power than your solar inverter can handle, it causes an overload. In simpler terms, you're using your inverter at a level higher than it's designed for. A lot of developers deliberately choose to overload their Inverters. What is the benefit of this?

And is it a good practice?

Let's understand in detail.

Are You generating too much solar energy?

As you might be thinking, excess solar energy is incredibly common. If your system is designed to supply a large fraction of your house's power, you're likely producing excess energy during the sunniest parts of the day.

How much power does a solar panel generate?

Solar panels rarely generate their complete power output. A module with a power rating of, say 400 W, will only generate 400 Wp of energy in standard test conditions (STC). STC measures the performance of solar panels at a set temperature (25 °C) and a fixed irradiance level (1000 W/m<sup>2</sup>). But, real-world conditions are different.



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