

# **Solar panels and inverters over-proportion**





## Overview

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Should solar panels be matched with inverters?

This article explores the critical aspects of matching solar panels with inverters, detailing the risks of overloading, the importance of correct sizing, and effective strategies for managing extra panels, such as upgrading inverters or using microinverters to optimize solar energy systems.

What happens if you overload a solar inverter?

Overloading an inverter with too many panels can cause a number of problems, including reduced efficiency, potential damage to the inverter, and safety concerns due to overheating. Making sure your solar panels and inverter are properly matched is crucial to maintaining a safe and efficient solar power system.

What is overpaneling a solar panel?

With overpaneling, your solar array's peak power exceeds your inverter's rated AC power. An example is connecting 10kWp (ten kilowatts peak) solar panel capacity to an inverter rated at 8kW AC. What are the Benefits of Overpaneling?

Overpaneling is especially helpful on gloomy days and brings opportunities on sunny days.

What does oversizing a solar panel mean?

Oversizing means that we have the capacity to produce more DC power in a system than the inverter can effectively turn into AC energy. On the surface, that would seem counterintuitive. Shouldn't we aspire to an equal amount of DC power coming as AC power going out?

This would be true if panels always produced at their maximum stated output levels.



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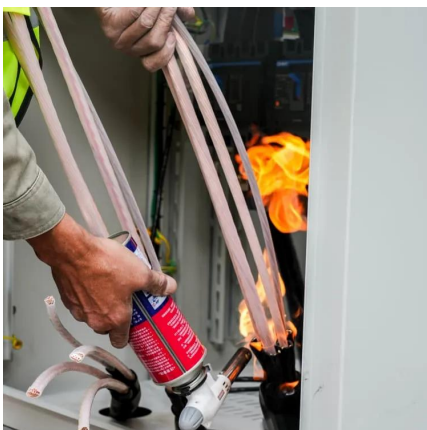
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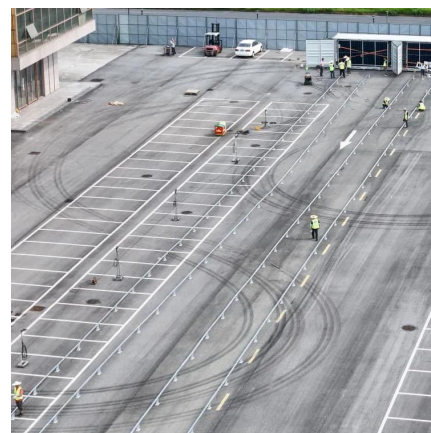


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