

Solar inverter wattage selection





Overview

What size solar inverter do I Need?

Inverter size is measured in kilowatts (kW). It should match your solar array within a 1.15 to 1.33 ratio. Getting it wrong can reduce efficiency or disqualify you from solar rebates. What size inverter do I need for solar panels?

To calculate, divide your solar panel system's total DC rating by the desired inverter's AC output.

What does a solar inverter do?

The solar inverter serves as the heart of any photovoltaic (PV) power system, performing the critical function of converting the direct current (DC) electricity generated by solar panels or stored in batteries into the alternating current (AC) required by standard appliances.

How to choose a solar inverter?

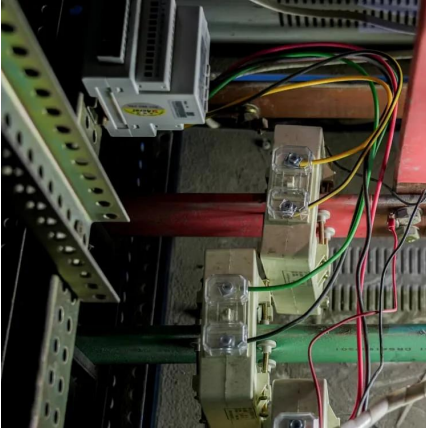
- Match inverter voltage to your battery bank and its current capacity.
- Confirm battery chemistry compatibility.
- Check input limits (for solar inverter: maximum Voc and Isc).
- Ensure safety certifications (UL, IEC, etc.), protections (overtemp, overload, etc.).
- Look at thermal design, installation needs, maintenance (ventilation, wiring).

What is a recommended inverter power range?

By inputting your panel's rated power and number of panels, the calculator produces a recommended inverter power range that aligns with 80-100% of your system's total DC capacity. This approach ensures that your inverter is neither under-sized—risking energy losses and performance issues—nor over-sized, which can lead to unnecessary costs.



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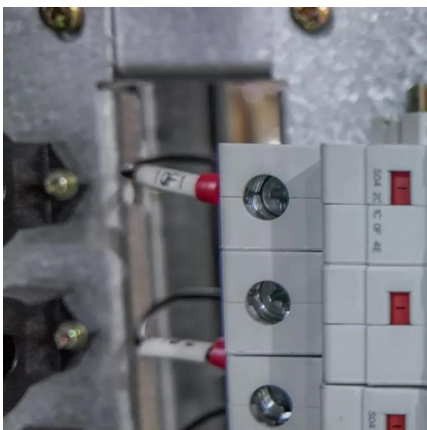
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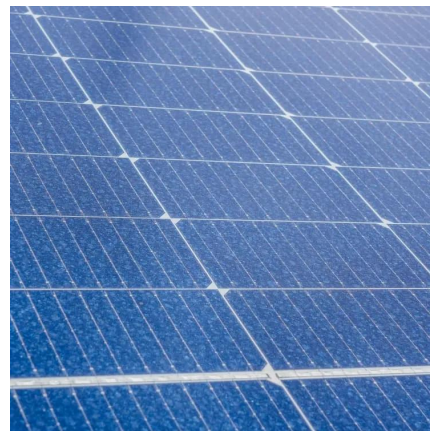


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