

# **How big an inverter should a solar power station be equipped with**





## Overview

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### What size solar inverter do I Need?

Your inverter size should match your solar array's capacity, not your electricity bill. This means your inverter doesn't need to power your entire home—it just converts whatever your panels generate. Let's say you have a 6kW solar array (twenty 300-watt panels).

### How do I choose a solar inverter?

Knowing your array size allows you to choose an inverter that can handle that production efficiently—without over- or under-investing in capacity. The second step is understanding your system's DC-to-AC ratio, one of the most important metrics when sizing a solar inverter.

### Why is inverter size important?

Inverter size also plays a key role in the DC-to-AC ratio—a critical design metric in any solar system. This ratio compares the total power rating of your solar panels (in DC) to the maximum output of your inverter (in AC).

### Do I need a 5 kW inverter?

Most UK homes need at least a 5 kW inverter. While 3.68 kW is common, larger homes or those with batteries benefit from a 5 kW+ system. What is a solar inverter?

A solar inverter converts electricity between “direct current” (DC) and “alternating current” (AC). Electricity produced by solar panels and electricity stored in batteries is DC.



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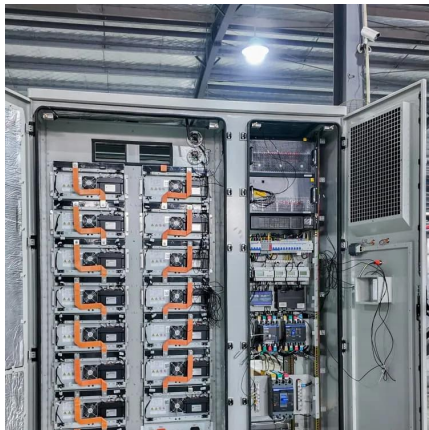
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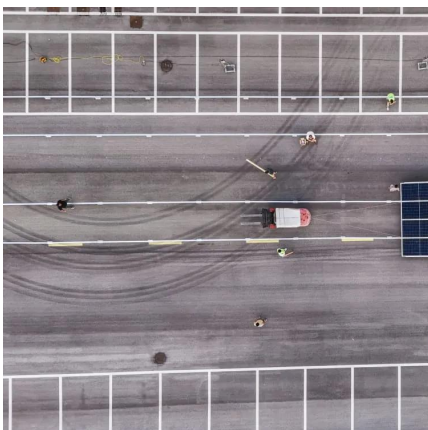
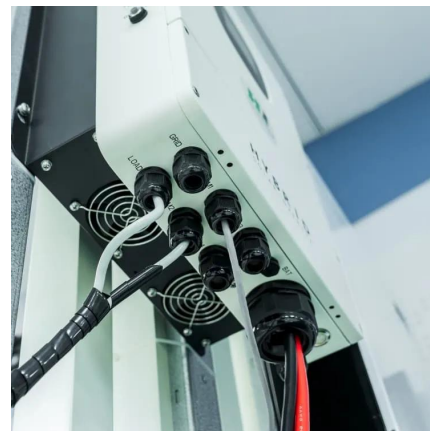


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