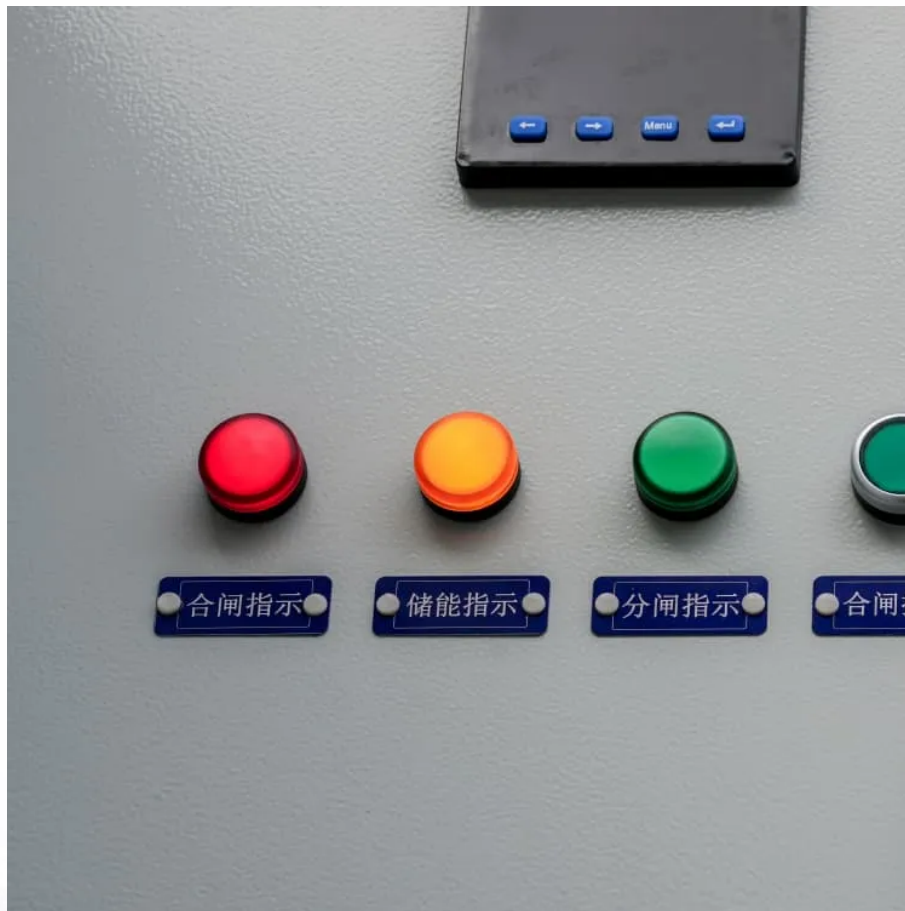


# How big of an inverter is needed for a 45kw solar





## Overview

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What are the different solar inverter sizes?

Solar generators range in size from small generators for short camping trips to large off-grid power systems for a boat or house. Consequently, inverter sizes vary greatly. During our research, we discovered that most inverters range in size from 300 watts up to over 3000 watts. In this article, we guide you through the different inverter sizes.

Do I need an inverter size chart?

The need for an inverter size chart first became apparent when researching our DIY solar generator build. Solar generators range in size from small generators for short camping trips to large off-grid power systems for a boat or house. Consequently, inverter sizes vary greatly.

How much power does a solar inverter need?

First up—your solar panel output. If your panels produce 6kW, your inverter should match that, or come close. You don't need a perfect 1:1 ratio, but don't underpower it either. That's like putting cheap tyres on a Ferrari.

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.



## How big of an inverter is needed for a 45kw solar

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