

## **665 Inverter used by solar panels**





## Overview

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What is a solar inverter?

A solar inverter (or photovoltaic inverter) is an electronic device that is indispensable in any photovoltaic solar energy system. Its main function is to convert the direct current (DC) produced by the modules or solar panels into alternating current (AC) which is the type of energy used by most electrical equipment and the conventional power grid.

How do solar inverter systems work?

By now, you should have a good idea of how solar inverter systems work and why they're important. In a grid-connected PV system, solar panels capture sunlight and convert it into direct current (DC). The inverter then turns that DC into alternating current (AC) that your home and the grid can use.

How to choose a solar inverter?

Check the rated power of the inverter against the total power of the solar panels installed. In on-grid systems, the inverter is usually sized a little below or close to the power of the modules (for example, a system with 5 kW of boards can use a 5 kW or 4.6 kW inverter, as small losses can occur).

How big should a solar inverter be?

Generally, it's recommended to size the inverter to 80-100% of the DC system's rated capacity. Before determining the inverter size, the most important thing is to calculate your average daily power consumption (kWh) and calculate your solar panel array size to match your power consumption. You could follow our to make this estimation.



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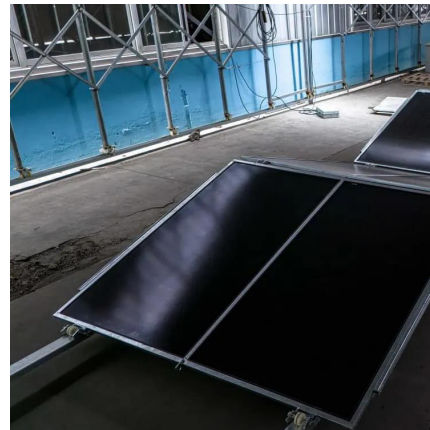


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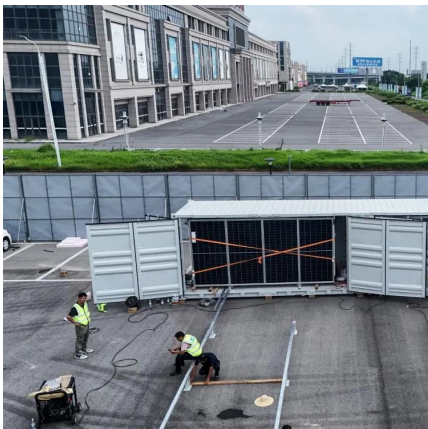
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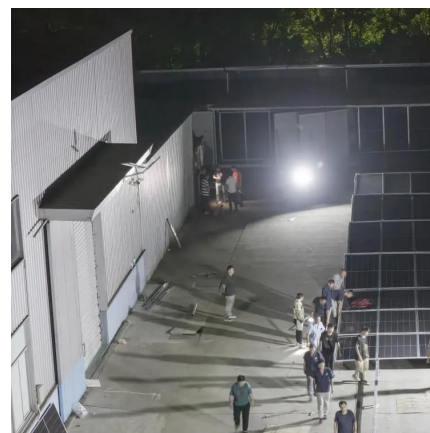
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