



LOTWA SYSTEM

## DC inverter becomes smaller





## Overview

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What does oversizing a solar inverter mean?

Oversizing your solar system generally means that your solar inverter is oversized for the amount of solar panels and energy output you currently have. An example of this would be if you have 4kW of solar panels but a 5kW solar inverter. Why would I oversize my 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).

What does under-sizing a solar inverter mean?

Using the graph above as an example, under-sizing your inverter will mean that the maximum power output of your system (in kilowatts – kW) will be dictated by the size of your inverter. Solar inverter under-sizing (or solar panel array oversizing) has become common practice in Australia and is generally preferential to inverter over-sizing.

How does a solar inverter affect efficiency?

The efficiency of the inverter drives the efficiency of a solar panel system. Inverters change the Direct Current (DC) from solar panels into Alternating Current (AC), which is what we use in our homes and businesses. This article talks about how to pick the right size solar inverter.



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