

## SolarTech Power Solutions

# How big of an inverter do I need for 60 volts



## Overview

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### What size inverter do I Need?

The size of the inverter you need depends on the total wattage requirements of the devices or appliances you want to power. To determine the appropriate size, you can calculate the combined wattages of the items you plan to run using the inverter.

### 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.

### How much power does an inverter need?

The continuous power requirement is actually 2250 but when sizing an inverter, you have to plan for the start up so the inverter can handle it. Third, you need to decide how long you want to run 2250 watts. Let's say you would like to power these items for an eight-hour period.

### How do you calculate inverter size?

Precisely calculating inverter size requires tallying the peak wattages of all electronic devices and appliances you need to power. Don't forget voltage spike and future growth buffers. Also factor in the power factor efficiency to determine the true minimum volt-amperes.

### How to choose a power inverter?

Second, select an inverter. For this example, you will need a power inverter capable of handling 4500 watts. The continuous power requirement is actually 2250 but when sizing an inverter, you have to plan for the start up so the inverter can handle it. Third, you need to decide how long you want to run

2250 watts.

How much wattage should I add to my inverter?

If you are able to find the specific wattages for your devices, you'll want to add them together to get a bare minimum figure. This number will be the smallest inverter that could possibly suit your needs, so it's a good idea to add between 10 and 20 percent on top and then buy an inverter that size or larger.

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### Contact Us

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