



WALMER ENERGY

## 700W solar inverter life





## Overview

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How long do solar inverters last?

With proper maintenance and regular monitoring, quality solar inverters can serve reliably for 10-15 years, providing optimal energy conversion efficiency throughout their lifespan. Remember that environmental conditions, installation quality, and maintenance practices significantly impact longevity.

How many watts can a 700 watt inverter run?

The inverter can run a 700 watt load for 2.4 hours. Notice that we divided 31.2 amps with 75ah, not 150ah. That is because a deep cycle battery has a 50% discharge rate (DOD) so only 75ah is usable. If you have a new AGM or gel battery the DOD can reach 70%. For lithium batteries you can fully discharge it without causing damage.

How long do microinverters last?

Microinverters typically showcase impressive longevity, with an average lifespan of 20-25 years, often matching the warranty period of solar panels themselves. This extended durability stems from their distributed architecture, which reduces stress on individual components.

How long can a 24V inverter run a 500W load?

Using this calculation, a 24V inverter with a 100ah battery and 93% efficiency can run a 500W load for 2.3 hours. You have a 24V inverter with a 150ah deep cycle battery. The inverter is 93% efficient. You want to run a 700 watt load, so how long can the inverter run this?

The inverter can run a 700 watt load for 2.4 hours.



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