

SolarTech Power Solutions

How long does a home inverter last



Overview

In general, well-made power inverters are estimated to last 5 to 15 years. However, users can prolong the lifespan depending on maintenance and care habits. How long do solar inverters last?

Solar inverters last 10–15 years on average, with microinverters and power optimizers often lasting 20+ years. Heat, quality, installation, and maintenance heavily influence lifespan. Regular check-ups, proper placement, and using quality parts extend durability. Budget for at least one inverter replacement during your solar panel system's life.

When should you replace a solar inverter?

If you have a solar inverter, you may be wondering when you should replace it. There are a few things to keep in mind when making this decision. First, the average lifespan of a solar inverter is about 10 years. This can vary depending on the quality of the inverter and how well it is maintained.

How often do solar inverters fail?

The average failure rate for solar inverters is around 0.5%, which means that for every 1,000 inverters installed, five will need to be replaced at some point during their lifespan. The most common cause of failure is incorrect installation or wiring, followed by component degradation due to weathering or poor quality components.

How old are solar inverters?

The oldest inverters in the study are from the early 1990s, but most were commissioned between 2008 and 2013. 2008 is ancient history when it comes to solar power 3, and inverter/optimizer technology has evolved since then 4.

Can an inverter age?

It's not impossible, but it's rare. Your inverter's lifespan depends on build quality, climate, and how well you treat it. Hot summers and constant

exposure to dust or moisture can speed up the aging process.

Are old solar inverters a real workhorse?

Researchers in Switzerland have been keeping an eye on a bunch of old solar inverters and power optimizers to see how they are faring; with some interesting results. Solar panels tend to steal the limelight, but the real workhorse of a PV system is the solar inverter.

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