

## SolarInnovate Energy Solutions

# How long is the general life of a high-frequency inverter



## Overview

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It is generally believed that inverter lifespan is limited by internal electronic components (IGBTs, capacitors, inductors, etc.), and their service life generally does not exceed 10 years. How long do PV inverters last?

But the PV inverter lifespan ranges from 10 to 25 years, depending on the type. Most average inverter lifespan, and the lifespan of energy storage inverters and hybrid inverters is 10 years. However, microinverters, such as 500w inverter, last even longer. Even within one type of PV inverter, the lifespan of individual models may vary.

How long does a battery inverter last?

These inverters are newer to the market and can have a longer lifespan, often 20 to 25 years, since they handle less power per unit. Hybrid Inverters: For systems that store energy in batteries, hybrid inverters are essential.

What factors affect the inverter lifespan?

It is generally believed that the main culprits that affect electronic components are high temperature, dust, oxidation, moisture, etc. Therefore, the inverter lifespan is also affected by these factors, which requires operators to perform necessary maintenance to extend their inverter lifespan.

How long do off-grid inverters last?

Off-grid inverters typically have a lifespan similar to string inverters, ranging from 10 to 15 years, depending on factors like installation quality, maintenance, and environmental conditions.

When should I replace my inverter?

Age: If your inverter is approaching 10-15 years old, it's a good idea to plan for a replacement, even if it hasn't failed yet. This is especially true if it's no longer covered under warranty. Proper Ventilation: Install your inverter in a cool, shaded place with plenty of ventilation.

## Do inverters need maintenance?

Like all electrical devices, inverters benefit from periodic servicing to ensure they continue to function optimally and last longer. Inverters generally do not require extensive servicing, but regular checks and maintenance can help avoid potential issues and prolong their lifespan. 1. Routine Maintenance

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