

## ContainerPower Energy Solutions

# Home solar energy storage battery life

**5** Years warranty



## Overview

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Solar installer Sunrun said batteries can last anywhere between 5-15 years. That means a replacement likely will be needed during the 20-30 year life of a solar system. How long do solar batteries last?

Warranty periods can offer a look into installer and manufacturer expectations of the life of a battery. Common warranty periods are typically around 10 years. The warranty for the Enphase IQ Battery, for instance, ends at 10 years or 7,300 cycles, whatever occurs first. Solar installer Sunrun said batteries can last anywhere between 5-15 years.

What happens when a solar battery reaches its useful life?

A solar battery reaches its useful life when it fails to meet its nominated percentage of storage capacity eg. 60%. The battery will continue to degrade, and it may be able function at lower percentages, but it is deemed to have reached its useful life. Solar batteries degrade far more, and faster, than solar panels do.

Is home solar a good option for home energy storage?

Residential energy storage has become an increasingly popular feature of home solar. Data collected by analyst SunWiz found that a record 57,000 residential battery energy storage systems, with a combined capacity of 656 MWh, were installed in Australian homes in 2023, up 21% on the previous year.

How many battery energy storage systems are there in Australia?

Data collected by analyst SunWiz found that a record 57,000 residential battery energy storage systems, with a combined capacity of 656 MWh, were installed in Australian homes in 2023, up 21% on the previous year. About 250,000 Australian homes, totalling 2,770 MWh, now have a battery system.

What drives battery life expectancy?

Battery life expectancy is mostly driven by usage cycles. As demonstrated by the LG and Tesla product warranties, thresholds of 60% or 70% capacity are warranted through a certain number of charge cycles. Two use scenarios drive this degradation: overcharge and trickle charge, said the Faraday Institute.

How many Australian homes have a battery system in 2024?

About 250,000 Australian homes, totalling 2,770 MWh, now have a battery system. And it's a trend that SunWiz expects to accelerate in 2024. This year, the distributed market segment analysts expect approximately 70,000 residential batteries to be installed.

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