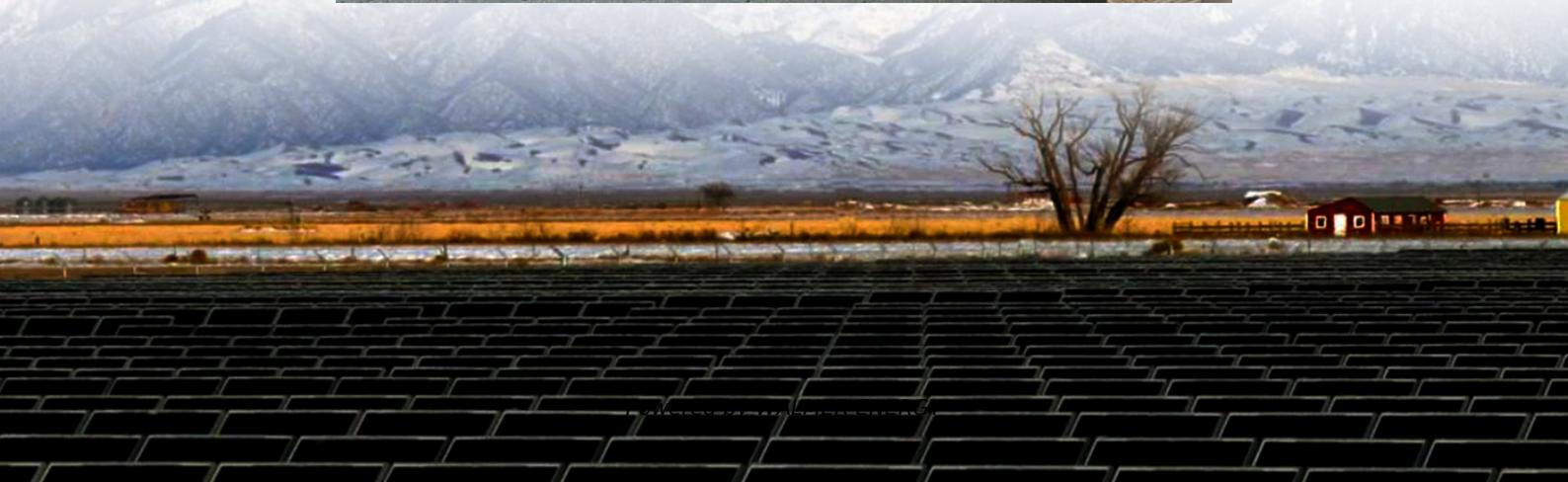




WALMER ENERGY

Lifespan of a single solar container lithium battery and battery pack





Overview

How long do solar batteries last?

The life expectancy of a solar battery depends on several factors—what kind of battery you have, how you use it, where it's stored, and how well it's maintained. While lead-acid batteries may only last a few years, lithium options can easily reach 10 to 15 years or more with proper care.

How long does a battery last?

Lead-acid batteries (flooded or sealed): These are the most traditional type and also the shortest-lived, typically lasting 3 to 7 years. They're more affordable upfront but require regular maintenance and don't hold up as well over time. When people talk about battery lifespan, they're often referring to "cycle life".

How long does a lithium battery last?

For example, a lithium battery might be rated for 5,000 cycles. If you cycle it once a day, that gives you roughly 13-14 years of use. But if you're only cycling it every few days, you could stretch that out even further. The depth of each cycle also matters.

How long does a LiFePO₄ battery last?

While not as long-lasting as LiFePO₄, they still typically deliver around 10 years of service with proper care. Saltwater batteries: These are a newer, environmentally friendly option. They use saltwater electrolytes instead of heavy metals and offer a similar lifespan to lithium options—often around 10 to 15 years.



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