



Solar backup batteries

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Solar power is available for only part of the day. Adding a solar power storage battery system ensures you always have power when the sun isn't out or during a power outage.

A professional solar electricity system installer can help you select a battery that works well with your goals, whether you want to be entirely off-grid, have an emergency store for outages or minimize your costs from the electric company during peak hours.

DIY battery installation instructions abound online, but beware. Working with electrical equipment is dangerous and doing so without the proper training may also void your warranties and put you out of compliance with codes and other regulations.

Yes. The 30% federal solar tax credit can be applied to the total cost of your solar battery system if your battery can hold at least three kilowatt-hours of energy and is installed in 2023 or later.

Learn about whole-home battery backups to decide if they're right for you.

Batteries are the key component that ensures your home can always stay lit and warm and that vital pieces of electronics such as medical equipment continue functioning. Depending on where you live, they might be able to save you some extra money by returning energy to the grid at times when it's more valuable.

Interested in understanding the impact solar can have on your home? Enter some basic information below, and we'll instantly provide a free estimate of your energy savings.

All of these benefits come at a cost, and wading through specifications to find the right match for your needs can be a bewildering task. Here's a concise primer on what you need to know before you go shopping for independence in a box.

The simplest way to think of batteries is to imagine that the electricity in your house flows through wires in much the same way as water through plumbing. Batteries fill the role of a storage tank, making electricity readily available when it's needed, just as indoor pressure tanks and water heaters do with water. When batteries are tapped for energy, their reserve of stored electricity is depleted, but in a properly wired system, they can be automatically replenished by "catching" any excess electricity flowing through the system from sources like solar panels or the grid.

Depending on your goals for installing batteries, your system might look a bit different.

1. Connect just to solar panels: Batteries connected only to solar panels will fill when the sun shines and will



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discharge when you use electricity and the sun is down or behind clouds. It's one option if you are off-grid and away from electrical utilities.

2. Connect to solar panels and to the grid: If you have a solar inverter that can temporarily disconnect you from the grid, you have what's known as a hybrid solar system. In such a system, you can charge your battery with your solar panels or the grid and use the energy stored there in your home or send it back to the grid and save some money via rate arbitrage (if you have time-of-use rates). A hybrid system can also keep your house powered during a power outage.

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