Residential solar battery prices

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As subject matter experts, we provide only objective information. We design every article to provide you with deeply-researched, factual, useful information so that you can make informed home electrification and financial decisions. We have:

Sourced the majority of our data from hundreds of thousands of quotes through our own marketplace.

Incorporated third-party data and information from primary sources, government agencies, educational institutions, peer-reviewed research, or well-researched nonprofit organizations.

Built our own database and rating system for solar equipment, including solar panels, inverters, and batteries.

We won"t charge you anything to get quotes through our marketplace. Instead, installers and other service providers pay us a small fee to participate after we vet them for reliability and suitability. To learn more, read about how we make money, our Dispute Resolution Service, and our Editorial Guidelines.

A typical home needs about 11.4 kilowatt-hours (kWh) of battery storage to provide backup for its most critical electrical devices. In 2024, a battery with that capacity costs $9,041 after federal tax credits based on thousands of quotes through EnergySage.

If you"re looking at solar batteries, it"s probably because you either frequently experience power outages, or your utility company may not provide compensation for excess electricity your solar panels send to the grid. You could also just have access to really great incentives. If you fall under one of these categories, solar batteries are probably worth it. They could save you thousands of dollars over a decade.

If you think you need a battery just because you have solar panels, maybe reconsider. Batteries can significantly increase the overall cost of your solar system, sometimes even doubling the price. In many cases, solar batteries aren"t worth it yet. We"ll help you decide if investing in a battery will pay off.

Solar battery cost varies dramatically across brands. Different companies offer different battery sizes, so the easiest way to compare costs is to look at the price per kilowatt-hour (kWh). Kilowatt-hours measure the capacity of the batteries, or how much energy they can store at once.

On EnergySage, Tesla offers some of the most affordable batteries at about $1,000/kWh. You"ll typically pay the most for Generac batteries, which cost about $1,961/kWh.

*The median price per kWh of the 10 most quoted batteries on EnergySage in the first half of 2024.**The median usable capacity of the 10 most quoted batteries on EnergySage in the second half of 2024.

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Battery prices aren"t consistent from state to state. Based on EnergySage quotes, you"ll pay the most for a battery installation in Oregon and the least in California. Installers may be less familiar with batteries in certain states and charge more for labor. Or, they may tend to carry more expensive battery brands in your state, which can also drive up the price.

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