



4kw solar system with battery cost

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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.

If you're shopping for a solar energy system, one of your first questions is probably, "How much will it cost?" Prices depend on the size of your system, the type of equipment you choose, and the state you live in. Reviewing prices for a 4 kilowatt (kW) system is a great place to start for many smaller homes. Learn more about how much a 4 kW solar system costs, how much electricity a 4 kW system will produce, and the smartest way to shop for solar.

As of January 2022, the average cost of solar in the U.S. is \$2.77 per watt (\$11,080 for a 4 kW solar system). That means the total cost for a 4,000-watt solar system would be \$8,200 after the 26% federal tax credit discount (not factoring in any additional state rebates or incentives).

We looked at data from the EnergySage Solar Marketplace, the leading comparison-shopping platform for homeowners considering home solar panel systems, to find out how much solar shoppers are paying for 4 kW solar energy systems across the U.S.

The prices listed below have not had the federal tax credit for solar deducted. Depending on where you live, you might have additional state or local solar incentives and rebates that reduce the price even more. You may even earn extra income by selling your system's solar renewable energy certificates (SRECs).

Remember, the cost of solar depends on a lot of factors, so these numbers are just meant to be a starting point. In most cases, you should be able to find a 4 kW solar system in this price range - if you receive offers from solar companies that are much higher or lower, be sure to ask follow-up questions.



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The amount of electricity your solar panels produce depends on many factors, including the direction and angle of your roof. The most important one is how sunny it is where you live - for example, a 4 kW system in Las Vegas makes about 30 percent more electricity in a year than one in Philadelphia. You don't have to live in the Southwest for solar to make sense. The cost of electricity where you live is the biggest determinant of your solar savings.

The table below shows the average estimated electricity production numbers for 4 kW solar energy systems in cities across the U.S. By comparison, the average household in the U.S. uses 893 kilowatt-hours (kWh) a month, which equals 10,715 kWh per year. We estimated these numbers using PV Watts, a tool developed by the National Renewable Energy Laboratory.

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