12 kWh

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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:

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

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.

As of January 2022, the average cost of solar in the U.S. is $2.77 per watt ($33,240 for a 12-kilowatt system). That means that the total cost for a 12kW solar system would be $24,598 after the 26% federal solar tax credit discount (not factoring in any additional state rebates or incentives).

We analyzed solar quotes from the EnergySage Solar Marketplace to understand the range of prices that solar shoppers are paying for 12 kW solar energy systems across the United States. Homeowners who use EnergySage shop for the right home solar panel system at the right price by comparing multiple offers from solar installers in their area.

Even if you live in an area that does not offer additional solar incentives or rebates, reviewing offers from multiple solar companies will ensure you get the best price for your solar panel system. Homeowners who compare solar offers on the EnergySage Solar Marketplace generally save 20 percent simply by reviewing multiple solar options from different companies.

These numbers are a point of reference for you as you start the solar shopping process for your home. However, many factors can affect the cost of a solar energy system. If you choose high-efficiency equipment or need special accommodations for a complicated roof, your system will cost more. If you receive a quote from a solar company that"s significantly higher or lower than the range for a 12 kW solar system in your state, ask them for an explanation. A reputable solar installer will be able to walk you through their proposal in detail.

It should come as no surprise that the amount of sunshine where you live is the most important factor determining how much electricity your solar panels produce. If you install a 12 kW solar panel system on your roof in Phoenix, you"ll produce about 25 percent more electricity than if you installed the same system in Boston. That doesn"t mean you have to live in Arizona for solar to be a good option for your home - solar is a smart investment wherever electricity rates are high.

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Below is a table with estimated average electricity production numbers for 12 kW solar energy systems in cities across the United States. As a comparison, the average U.S. household uses 893 kilowatt-hours (kWh) a month, a total of 10,715 kWh per year. We developed these estimates using PV Watts.

Ready to get started? When you shop for solar through the EnergySage Solar Marketplace, you can review multiple offers from solar companies and find the best offer for your solar installation. The EnergySage Marketplace offers comprehensive, easy-to-understand comparison tables that make it easy to review all of your equipment options and financing offers, as well as solar company reviews. When you compare multiple solar quotes, you can feel confident that you"re making the smartest investment possible for your home.

If you’re considering installing a solar energy system, you’re probably wondering how much electricity it will generate. A 12 kW system is a good size for most homes, and it will produce sufficient kilowatt-hours (kWh) of electricity per year.

The average home in the United States uses about 901 kWh of electricity per month, so a 12kw system would cover about two-thirds of the monthly electricity consumption.

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