6 6 kw solar panels

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Installing a 6.6kW solar system can lead to substantial savings on your electricity bills. On average, a 6.6kW solar system can save you up to $2,048 per year. Over the 25-year lifetime of the solar panels, this amounts to a total savings of $51,191.

The cost of electricity has been on the rise for the past 40 years. In fact, there has been an increase of 270% in electricity costs during this period. This trend is expected to continue, making it even more important to find alternative sources of energy.

Source: U.S. Bureau of Labor Statistics

One of the main advantages of installing a solar system is the ability to generate your own electricity. The more electricity you generate, the less you rely on utility companies, ultimately resulting in lower utility bills.

In addition to saving on your electricity bills, you can also sell back the excess electricity you generate to the grid. This means that what you don’t use can be turned into profit. With current electricity costs, you can expect a 20% return on your investment per year on the panels alone.

The typical cost of a 6.6kW solar system is around $13,200. However, it is important to note that the prices of solar panels have come down substantially over the past 10 years, making it a more affordable option for homeowners.

If you are considering a solar system with battery backup, there are two main types of batteries to choose from – lead acid and lithium polymer batteries. For a 6.6kW system, the battery sizing will differ based on the type of battery chosen.

For lead acid batteries, the sizing calculation would be: 6.6kWh x 2 (for 50% depth of discharge) x 1.2 (inefficiency factor) = 79 kWh

For lithium batteries, the sizing calculation would be: 6.6kWh x 1.2 (for 80% depth of discharge) x 1.05 (inefficiency factor) = 42 kWh

Lithium batteries are highly recommended as they offer better efficiency, allowing you to use half as many batteries. Purchasing batteries and panels together can also help reduce the overall cost.

If you are looking to go completely off-grid with your solar system, you will need to consider additional factors. For a 6.6kW off-grid system, you will need to purchase at least 22 panels. Additionally, you will require approximately 42 kWh worth of lithium polymer batteries to ensure a full cycle. The typical cost of

batteries required to run a 6.6kW system is around $19,543.

If you need different power requirements, check out 6 kW solar systems

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