



Most popular residential solar panels

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Our top three recommended solar panels are Silfab and Panasonic, but your individual needs will determine which solar panel installer and solar panel brand is best for you. When deciding what type of solar panel is best for your installation, you'll need to weigh factors like cost, durability, warranty, efficiency and solar panel type. We have compiled this information to make it simple to compare brands and discover the best option for your home.

Silfab solar panels have an average efficiency of 18.9% to 21.4%. Silfab manufactures solar panels with a high-efficiency rating and leading warranties for an industry-average cost. While most solar manufacturers only offer a 25-year or lower power production guarantee, Silfab extends its coverage to 30 years.

Although Silfab is slightly more expensive than solar panels manufactured overseas, its panels are made in North America and hold up well in high-temperature and extreme weather conditions tests. Silfab's panels also offer a sleek, all-black design that provides superior roof aesthetics.

Although Panasonic does not sell the most efficient solar panels on the market, it still offers an above-average efficiency of 19% to 21%. It also excels in panel durability and degradation rates, offering an excellent 92% rated power output guarantee after 25 years. Like SunPower, Panasonic offers a comprehensive, 25-year warranty covering equipment, parts and workmanship.

Panasonic's panels also feature advanced solar cell technology and an aluminum frame to bolster performance in hot temperatures and windy conditions. Panasonic has also extended its product offerings to include aesthetic, all-black panels.



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Qcells offers efficient, durable and affordable panels. With a 19% to 20% average panel efficiency, Qcells panels also perform well in low-light conditions and maintain a low degradation rate.

Qcells has a presence across the globe and is renowned for its research innovations. It recently opened a manufacturing facility in the U.S. city of Dalton, Ga., but is headquartered in Seoul, South Korea and engineers its panels in Germany. It employs over 400 scientists across four countries to develop and test new solar technologies, keeping Qcells at the forefront of new solar breakthroughs.

With an average efficiency between 18.5% and 22%, Canadian Solar's panels offer an above-average efficiency at an affordable price of \$0.60 to \$1 per watt (before installation). Canadian Solar has the lowest starting cost per watt of any panel on our list, making it a great value option that still upholds high quality standards.

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