

Top 10 Solar Panel Companies and Manufacturers in the US in 2023

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Top 10 Solar Panel Companies and Manufacturers in the US in 2023 – In this post, we will list the top solar panel companies and manufacturers in the US.

We (the general public) will probably move towards using more sustainable, renewable energy over the next decade, leading to growth for some of the biggest US [Solar Panel Suppliers and Companies](#). In the past decade, US solar panel manufacturing has matured a great deal, with some companies failing to make it while others continue to grow and achieve success.

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Historically, solar energy was a fringe interest of those who were environmentally aware. Now it is a viable option in new homes and renovations. As more businesses and government entities seek renewable energy reserves on-site, solar is also becoming a popular way to power self-contained systems.

We have compiled a list of the top American solar energy companies today. The data is arranged by annual sales. Dashed lines indicate missing data.

Here is the list of Top 10 Solar Panel Companies and Manufacturers in the US in 2023:

- **First Solar**
- **NextEra Energy**
- **Suniva Inc.**
- **Trina Solar**
- **Hanwha Q CELLS**
- **Global Solar**
- **GreenBrilliance**
- **SunSpark**
- **SunPower**
- **Tesla/Panasonic**

List of Top Solar Panel Companies in the United States

Company	Headquarters	Edit	
		Type of panels	Annual Sale
First Solar	Tempe, AZ	Thin film	\$2711 million
NextEra Energy	Juno Beach, Florida --		Over \$500 million
Suniva Inc.	Norcross, GA	Polycrystalline	\$50-99.9 million
Trina Solar	San Jose, CA	Monocrystalline Multicrystalline	\$10-24.9 million
Hanwha Q CELLS	Dalton, Georgia	crystalline-silicon	\$21 million
Global Solar	Tuscon, AZ	Flexible thin film	\$18.3 million
GreenBrilliance	Sterling, VA	Monocrystalline, polycrystalline	\$5-9.9 million
SunSpark	Riverside, CA	Monocrystalline, polycrystalline	\$4.4 million
SunPower	San Jose, CA	Monocrystalline	\$1-4.9 million
Tesla/Panasonic	Palo Alto, CA	Monocrystalline thin film amorphous silicon	--

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First Solar

First Solar, headquartered in Arizona, founded in 1999, is the largest solar manufacturer in the US by capacity. It has opened a plant in Ohio that brings the total capacity of its US operations to 1.9 GW. In

addition to being the largest manufacturer in the US, it is also the only one that makes thin-film modules. By far being the world's leading company in this field, it manufactures cadmium telluride modules that are mostly used for large utility-scale projects.

NextEra Energy

Founded in 1925, NextEra Energy is based in Juno Beach, Florida. As well as providing solar panels, NextEra Energy also owns two electric companies in Florida: Gulf Power Company and Florida Power & Light Company.

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Founded in 2007, Suniva Inc. is headquartered in Norcross, Georgia. Among the leading American manufacturers of PV solar cells and modules, Suniva is known for its high efficiency and cost-competitive prices. The company is famous for its high-quality solar products, low-cost manufacturing technology, and long-term reliability.

Suniva Inc.

Suniva Inc., which is headquartered in Norcross, Georgia, was founded in 2007. Their product line includes high-efficiency, cost-competitive solar cells, panels and modules.

Trina Solar

San Jose, California, is the US headquarters of Trina Solar. Established in 1997, the company produces solar cells, wafers, ingots, and solar modules. Trina Solar provides a wide variety of solar panels and solutions to suit the various demands of residential, commercial, and large-scale utility customers.

Hanwha Q CELLS

The factory of Hanwha Q CELLS is located in Dalton, Georgia, and took almost \$200 million to construct. The Hanwha Group has a US Q CELLS plant that produces 12,000 solar panels a day and employs many Americans. The company also assembles Q.PEAK modules here, which utilize Q. Antum crystalline-silicon solar cells. Having its factory produce 1,700 MW of solar power, it is right behind First Solar and vying for the top spot.

Global Solar

Tuscon, Arizona, is the headquarters of Global Solar Energy, Inc. The company was founded in 1996. A thin-film CIGS (Copper Indium Gallium DiSelenide) solar module is what they produce. The panels are used for a variety of residential, commercial, and off-grid applications.

GreenBrilliance

GreenBrilliance is based in Sterling, Virginia. Since 2007, they have been providing solar panel systems to residential and commercial buildings and installing solar power electrical systems.

SunSpark

SunSpark Solar Services offers residential and commercial solar installation solutions. In addition to working exclusively with LG, SunSpark uses high-quality solar suppliers with proven products with longevity. The company designs solar systems with the best products for businesses, landlords, and tenants to meet financial and renewable energy goals.

SunPower

Founded in 1985, SunPower Corp. is based in San Jose, California. Their products include residential and commercial solar panels. Their rooftop solar panels are among the most efficient on the market. Both the A-Series and X-Series panels convert sunlight to electricity at a rate exceeding 22%. A division of the bankrupt company was purchased by SunPower in 2018 and quickly converted to SunPower solar panel manufacturing. Solar panels from the plant are expected to produce about 220 megawatts annually once it starts full-scale production in early 2019.

Tesla/Panasonic

Panasonic and Tesla share this one since the two companies work together to produce solar power. The Buffalo, New York, the plant produces 1,000 MW of solar panels annually. In 2016, Tesla acquired SolarCity's Buffalo plant. Panasonic joined Tesla for module production shortly after. It has also stated that the company will eventually manufacture Solar Glass tiles at this plant, but development takes place in the West.

FAQs about Solar Panel Companies and Manufacturers

How to choose a solar panel manufacturer?

- Calculate the solar panel efficiency and contrast it with the 16–18% industry average.
- Compare the manufacturer's warranties with the 10–25-year industry average.

- Efficiency is crucial, but the most effective panels aren't necessarily the best value. Compare cost to relative efficiency.

Can I mix solar panels from different manufacturers?

Even though it's not a good idea, you should study each solar panel's electrical characteristics (voltage, wattage, and amps) very carefully. The vendors are not the issue when trying to wire two panels made by separate suppliers.

What is the manufacturer's warranty on solar panels?

Usually, panels have a 25-year performance warranty. Additionally, a 10- to 25-year product guarantee is included with solar panels. To find out what is covered and what might invalidate a warranty, you should carefully review any that you want to buy.

Which solar panel is best for industry?

As the most effective choice, monocrystalline solar panels are frequently used for bigger energy systems in commercial and residential buildings. Monocrystalline might nevertheless be employed in smaller systems because panel sizes do vary.

Do all solar panels produce the same energy?

Based on the number of watts they produce; solar panels are graded. Your solar installation will generate more power if it has a higher wattage rating. Depending on the size of the panel and how successfully it converts sunlight into electricity, household solar panels typically have power output ratings between 250 and 400 watts.

Conclusion

Since solar panel manufacturer rankings are often based on the total volume of solar panels shipped by a company, being ranked top does not necessarily indicate they offer the best quality panels. While some small manufacturers are known for premium products, most larger manufacturers have grown by either making panels for the large-volume market or by concentrating on large-scale projects. The ability of a company to produce and sell a large number of its products demonstrates its credibility, building trust among consumers and installers alike.

As a solar shopper, it is imperative that you know how to differentiate between them to find the panel that is right for you and within your budget and specific need.

Get in touch with our Linquip [Solar Cells & Panels Experts](#) to learn more about how panels are ranked and how to select the right panel for your needs.

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