

# **Solar company with most patents**





## Overview

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Which companies invest in solar energy?

BlackRock, Bank of America, CPP Investments, and HV Capital are its major investors. 14. Raycatch Raycatch uses AI and data analytics to optimize solar energy production and performance.

Is SunPower a good solar company?

These are built on a solid copper foundation, offering higher reliability, durability, and efficiency compared to traditional solar panels. SunPower has nearly four decades of dedicated solar experience — they are a top-rated US solar firm with 15,000+ five-star reviews.

How many solar panels are there?

The company has manufactured more than 38 million panels, which together have generated an impressive 10 gigawatts of energy. This substantial output translates into tangible impact, with over 16 million people benefiting from clean, sustainable power in their homes.

What makes Longi a great solar company?

It has 15 manufacturing bases and 30+ branches worldwide. With a team of over 1,000 researchers and a substantial R&D investment of 80 million, LONGi has secured 1,387 patents. Its N-HJT efficiency of 26.81% showcases the company's commitment to high-performance solar solutions.

Who makes SolarEdge Solar inverters?

SolarEdge manufactures solar inverters, power optimizers, EV chargers, and monitoring systems or photovoltaic installations. Their products have been installed in over 140 countries totaling an impressive 52.6 GW worldwide.

Who makes REC Solar panels?



REC manufactures high-quality solar panels and related products for residential, commercial, and utility-scale applications. It has manufacturing facilities in Singapore and employs over 4,200 people globally. The company has manufactured more than 38 million panels, which together have generated an impressive 10 gigawatts of energy.



## Solar company with most patents

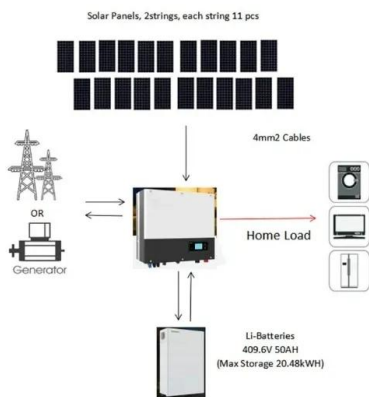
### Trina Solar selected among Top 500 Chinese Companies by Patent



The inaugural list of Top 500 Chinese Companies by Patent has been announced, with Trina Solar taking pride of place among them. Trina Solar has always placed great importance on patents and intellectual property. For example, it has set up its own IP

### JinkoSolar Promotes Technology Innovation Through ...

JinkoSolar strengthens its position in the industry by granting N-type TOPCon patents to a top-tier solar module company. With over 330 granted TOPCon patents and a commitment to innovation, JinkoSolar facilitates ...

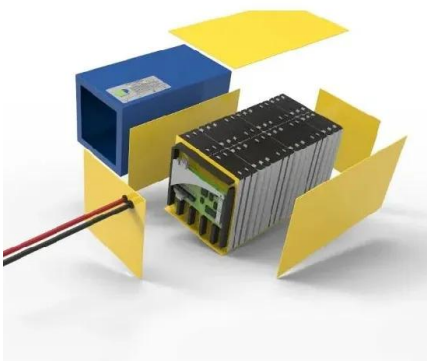


### Global: Top Solar Patents Holders in the Oil & Gas Sector (2002)

With 11,089 Solar related patents published between 2002 and 2022, Samsung Group holds the most number of Solar patents in the global Oil & Gas sector, of which 64.1% was contributed by its subsidiary Samsung Display Co Ltd.

### JinkoSolar Licenses TOPCon Patents to One of the World's Top ...

SHANGRAO, China, February 6 2024 -- JinkoSolar Holding Co., Ltd. ("JinkoSolar" or the "Company") (NYSE: JKS), one of the largest and most innovative solar ...



### [JinkoSolar Intellectual Property White Paper](#)

Jinko Solar's patent applications and grants represent 56.9% of the total, with invention patent applications making up 57%. Notably, the company holds 330 grant-ed patents for N-type TOPCon technology, the highest in the industry.

### **First Solar Takes Ownership of TOPCon Patents Through ...**

crystalline-silicon PV solar cells. First Solar secured the patent and related international counterparts through its acquisition of TetraSun, and has initiated an investigation of several solar



### **JinkoSolar Licenses TOPCon Patents to One of the ...**

JinkoSolar Holding Co., Ltd., one of the largest and most innovative solar module manufacturers in the world, announced its affiliated company has recently signed a TOPCon patent license agreement with one of ...





### First Solar Announces Ownership of TOPCon Technology Patents ...

First Solar, Inc. today announced its ownership of patents related to the manufacturing of Tunnel Oxide Passivated Contact crystalline-silicon photovoltaic solar cells. First Solar secured the U.S



### [Companies by Number of Issued Patents](#)

Company	No. of Issued Patents	Quality Badges
1st Samsung Electronics Co., Ltd.	6434	2nd
2nd QUALCOMM Incorporated	3994	Top 10
3rd Taiwan Semiconductor Manufacturing Co., Ltd.	3842	Top 10
4th	2100	Top 10
	2400	Top 10
	2600	Top 10
	2800	Top 10
	3600	Top 10

### Trina Solar probing potential breaches of TOPCon patents

Chinese solar module maker Trina Solar is actively trying to determine whether other manufacturers are currently violating some of its patents for TOPCon solar cell technology. "In Trina's opinion, it is necessary to create a fair ecosystem in which intellectual protection plays an important role," Álvaro García-Maltrás, Trina Solar's general director for Latin America and ...



### [Global: Top Solar Patents Holders \(2002](#)

With 11,349 Solar related patents published between 2002 and 2022, Samsung Group holds the most number of Solar patents across the world, of which 64.4% was contributed by its ...



### JinkoSolar Licenses TOPCon Patents to One of the ...

JinkoSolar Holding has signed a TOPCon patent license agreement with a top-five solar cell company, granting rights to its N-type TOPCon patents for a fee. With a focus on sustaining technical leadership, ...



### JinkoSolar Tops the Patent List for 2nd Time with Its Innovation

According to the latest patent leaderboard released by the All-China Federation of Industry and Commerce(ACFIC), JinkoSolar is the highest patent holder for 2023 in the ...

### Top 5 Patent Holders

There are many more inventors and patent holders--in 2020 alone, there were 597,175 utility patent applications, 47,838 design patent applications, and 976 plant patent applications.  
3. Kangguo Cheng



### (PDF) Patent Analysis of High Efficiency Tunneling ...

The results indicate the TOPCon solar cell technology currently entered into the maturity stage in 2019, and the companies with the top three number of patents are LG Electronics, SunPower, and



## JinkoSolar Holds One of the Largest Portfolio of Granted ...

SHANGRAO, China, December 26 2023 -- JinkoSolar Holding Co., Ltd. ("JinkoSolar" or the "Company") (NYSE: JKS), one of the largest and most innovative solar module manufacturers in the world, today announced that after almost six years, JinkoSolar ...



## 14 Largest Solar Companies In The World [As of 2024]

Their machines and solar systems have won several awards and are protected by nearly 1,600 patents and utility models. [2] In 2024, Statista and Capital Magazine featured SMA as one of the most innovative firms in ...

## North America: Top Solar Patents Holders in the Consumer

With 21 patents held between 2002 and 2022, Hall Labs LLC holds the most number of Solar patents in the Consumer sector in the North America region. The second largest number of patents were held by Sunrun Inc with 21 Solar patents, of which 95.2% was



## [Who's Got the Most Smart Grid Patents?](#)

In simple terms, potential licensees tend to be larger companies with active patent filing histories. Most patents were filed after 2008, indicating a readiness to license technology rather than



### EGEB: These companies lead in green patent applications

General Electric Company is second, with 83 patent applications. Cool Planet, Gevo Inc, Haldor and most will involve solar. The Danish company has never before completed a major solar project



### First Solar warns global solar manufacturers of patent infringement

5 ???· The U.S. solar panel manufacturer has sent letters to Longi, Trina Solar, Jinko Solar, JA Solar and Canadian Solar saying it believes the companies are infringing on its patents. U.S. solar panel manufacturer First Solar on its Q3 earnings call told analysts it has issued letters through its attorneys to major solar manufacturers, warning that it believes its patents are being ...

### Annual patents filed in sustainable energy

Data on renewable energy patents. Data for the most recent years are not complete due to a lag between the filing date and the time at which the patents are officially published. Further information can be found on IRENA ...



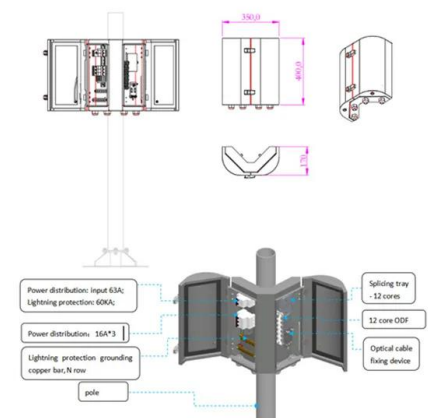
### JinkoSolar Licenses TOPCon Patents to One of the World's Top Five Solar

announced its affiliated company has recently signed a TOPCon patent license agreement with one of the world's top five solar cell companies ("Licensee"), granting rights to certain of its N-type



### List of Solar Battery Companies in Australia

Growatt is another solar company to enter the solar battery scene in Australia. With its ARK series, households have access to a stackable, modular battery system. In its ARK LV series (pictured right), sizing ranges from as little as 2.56kWh to as large as 25



### Market cap of solar companies worldwide 2024 , Statista

As of May 2024, First Solar was the leading solar energy company worldwide, based on market capitalization. Premium Statistic U.S. EPC firms by project capacity 2016 Premium Statistic Revenue of

### 2024 Patent 300 List , Top Patent Owners List , Top ...

The Patent 300®, developed by Harrity Patent Analytics, is the intellectual property industry's premier resource for patent insights and competitive intelligence on the world's leading technology organizations. The Patent 300® ...





### Report: Samsung among top patent holders in solar

Companies such as First Solar, Nanosolar, SunPower and SunTech ranked "well out of the top 15 patent holders," according to the report. "Perhaps the most notable of these is Q-Cells. Although their corporate strategy appears to be more focused on acquisition than in-house R& D, we did not find any of Q-Cells' acquisitions among the patent assignees," the ...



### First Solar Inc Patent & Company Information

Top 10 Solar Module Manufacturers in the World in 2021 by Capacity Top 10 Power Producers in the World by Market Capitalization View up-to-date information on First Solar Inc patents, including inventor and filing insights.



### China: Top Solar Patents Holders (2002

With 4,058 Solar related patents published between 2002 and 2022, State Grid Corporation of China holds the most number of Solar patents in China. Take your business to the next level. Explore the latest trends and actionable insights to inform business strategy

### Solar Power: An Overview of the Patent Landscape

The role of renewable energy in global power generation is growing -- particularly for solar power. Thanks to increasing innovation and decreasing costs, global solar capacity has doubled from 2018 to 2021. According to Nature Communications, solar power is currently on track to become the world's dominant source of power by 2050. If you're ...





## Highest Number of Patents by a Company , UpCounsel 2024

The top five businesses with the highest number of patents by a company in 2016 were Google, IBM, Qualcomm, Canon, and Samsung, as reported by the researcher IFI Claims Patent Services. Every year IFI releases an annual ranking of ...

### US6329589B1

A solar panel arrangement for capturing solar energy and supplying power for use in a building. Solar cells are embedded in a window pane and generate electrical direct current that is converted, by an electrical circuit permanently attached to the pane, to an



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