

Global TOPCon Photovoltaic Cell Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global TOPCon Photovoltaic Cell market size was valued at US\$ 64.7 million in 2024 and is forecast to a readjusted size of USD 85.4 million by 2031 with a CAGR of 3.6% during review period.

TOPCon Photovoltaic cells are a type of high-efficiency silicon solar cell. They feature a thin tunneling oxide layer and a heavily doped polysilicon layer on the rear side of the cell. This structure creates a passivated contact, reducing recombination losses and improving carrier collection. This leads to higher open-circuit voltage and overall cell efficiency compared to conventional PERC (Passivated Emitter Rear Cell) technology. TOPCon technology is considered a promising next-generation technology for achieving higher solar cell efficiencies and lower levelized cost of energy (LCOE).

The TOPCon photovoltaic cell industry is experiencing rapid growth as manufacturers seek to improve solar cell efficiency and reduce manufacturing costs. Key trends include advancements in deposition technologies for the tunneling oxide and polysilicon layers, such as PECVD (Plasma-Enhanced Chemical Vapor Deposition) and PVD (Physical Vapor Deposition), aiming for higher throughput and better uniformity. There's a strong focus on optimizing the doping profiles and thickness of the polysilicon layer to maximize passivation and carrier selectivity. The industry is also exploring different cell designs, such as bifacial TOPCon cells, which can absorb light from both sides, further increasing energy yield. Furthermore, there is a push towards integrating TOPCon technology with other advanced cell architectures, such as heterojunction (HJT) technology, to create even higher efficiency tandem solar cells. The increasing demand for high-efficiency solar modules for utility-scale solar farms and rooftop installations is driving the adoption of TOPCon technology. The industry is also focused on reducing

the cost of TOPCon manufacturing equipment and materials to make it more competitive with other cell technologies. As the technology matures and manufacturing costs decrease, TOPCon is expected to become a dominant technology in the photovoltaic market.

This report is a detailed and comprehensive analysis for global TOPCon Photovoltaic Cell market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global TOPCon Photovoltaic Cell market size and forecasts, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/KW), 2020-2031

Global TOPCon Photovoltaic Cell market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/KW), 2020-2031

Global TOPCon Photovoltaic Cell market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/KW), 2020-2031

Global TOPCon Photovoltaic Cell market shares of main players, shipments in revenue (\$ Million), sales quantity (MW), and ASP (US\$/KW), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for TOPCon Photovoltaic Cell
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global TOPCon Photovoltaic Cell market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Longi, Fraunhofer ISE, JinkoSolar,

Jolywood, Jietai Solar, JA Solar, Orisolar, Trina Solar, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

TOPCon Photovoltaic Cell market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

N Type

P Type

Market segment by Application

Distributed Photovoltaic

Centralized Photovoltaic

Major players covered

Longi

Fraunhofer ISE

JinkoSolar

Jolywood

Jietai Solar

JA Solar

Orisolar

Trina Solar

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe TOPCon Photovoltaic Cell product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of TOPCon Photovoltaic Cell, with price, sales quantity, revenue, and global market share of TOPCon Photovoltaic Cell from 2020 to 2025.

Chapter 3, the TOPCon Photovoltaic Cell competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the TOPCon Photovoltaic Cell breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and TOPCon Photovoltaic Cell market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of TOPCon Photovoltaic Cell.

Chapter 14 and 15, to describe TOPCon Photovoltaic Cell sales channel, distributors, customers, research findings and conclusion.

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