

Global 54-cell Rectangular Silicon Wafer Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global 54-cell Rectangular Silicon Wafer market size was valued at US\$ 15126 million in 2025 and is forecast to a readjusted size of US\$ 28326 million by 2032 with a CAGR of 9.1% during review period.

54-cell Rectangular Silicon Wafer refers to a type of photovoltaic (PV) module composed of 54 individual rectangular silicon solar cells arranged in a specific grid pattern within the module to convert sunlight into electricity. The term "54-cell" indicates the number of cells used, which is a key factor in determining the module's overall power output, efficiency, and size. Unlike traditional square wafers (e.g., M10 182mm $\times$ 182mm), rectangular wafers feature dimensions such as 182.2mm $\times$ 186.7mm (M10RT), which increase active area and boost power output without significantly changing module dimensions. 54-cell rectangular wafer modules typically measure 1,762mm $\times$ 1,134mm, with power outputs ranging from 430W to 450W.

The upstream segment includes suppliers of high-purity polysilicon, monocrystalline silicon ingots, wire sawing equipment, and wafer inspection systems. The midstream segment encompasses ingot slicing, edge grinding, lapping, etching, cleaning, and quality inspection performed by specialized wafer manufacturers. 54-cell rectangular silicon wafers are categorized by wafer type into P-type wafers and N-type wafers; by application into residential rooftops, commercial & industrial rooftops, and utility-scale power stations; by module configuration into single-glass, double-glass, all-black, and transparent backsheet versions. The downstream segment serves solar module manufacturers, EPC contractors, project developers, and distributed generation system integrators.

The global average selling price for 54-cell rectangular silicon wafers is approximately US\$0.105 per watt, with annual sales volume reaching approximately 140,000 MW (140 GW) in 2025. The industry maintains gross margins between 18% and 28%.

The global 54-cell rectangular silicon wafer market is experiencing robust growth, driven by the accelerating adoption of distributed generation solar systems and the increasing demand for higher-efficiency PV modules. As residential and commercial rooftop installations expand globally, 54-cell modules optimized for size and power output have become the preferred choice for distributed generation applications. DMEGC Solar's M10RT 54 Series, for example, is specifically designed for the distributed generation market, featuring module dimensions of 1,762mm x 1,134mm with power outputs from 430W to 450W and mass production efficiencies reaching 25.5%.

A notable trend reshaping the market is the industry-wide transition from square to rectangular wafer formats. Compared to traditional square M10 cells (182mm x 182mm), rectangular M10RT cells (182.2mm x 186.7mm) deliver 15W higher power output and 0.3% improved conversion efficiency without requiring modifications to standard module dimensions. This incremental gain directly reduces Balance of System (BOS) costs and Levelized Cost of Electricity (LCOE), making rectangular wafer-based modules economically attractive for project developers. The rectangular design also improves container utilization, reduces transportation costs, and provides greater compatibility with inverters and power optimizers.

This report is a detailed and comprehensive analysis for global 54-cell Rectangular Silicon Wafer 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 54-cell Rectangular Silicon Wafer market size and forecasts, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/KW), 2021-2032

Global 54-cell Rectangular Silicon Wafer market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (MW), and average selling

prices (US\$/KW), 2021-2032

Global 54-cell Rectangular Silicon Wafer market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/KW), 2021-2032

Global 54-cell Rectangular Silicon Wafer market shares of main players, shipments in revenue (\$ Million), sales quantity (MW), and ASP (US\$/KW), 2021-2026

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 54-cell Rectangular Silicon Wafer

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 54-cell Rectangular Silicon Wafer 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 Jolywood (Suzhou) Co., Ltd., LONGi Green Energy Technology Co., Ltd., JinkoSolar Holding Co., Ltd., Trina Solar Co., Ltd., JA Solar Technology Co., Ltd., Canadian Solar Inc., Risen Energy Co., Ltd., Tongwei Co., Ltd., Gokin Solar Co., Ltd., Grand Sunergy Tech Co., Ltd., etc.

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

Market Segmentation

54-cell Rectangular Silicon Wafer market is split by Type and by Application. For the period 2021-2032, 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

P-type Silicon Wafer

N-type Silicon Wafer

Market segment by Electrical Parameter

Open-Circuit Voltage ($V_{oc} \geq 33.24V$)

Short-Circuit Current ($I_{sc} \geq 13.54A$)

Market segment by Power Output

430-450 W

455-470 W

Above 470 W

Market segment by Application

Residential Roofs

Industrial and Commercial Roofs

Large Ground Power Stations

Major players covered

Jolywood (Suzhou) Co., Ltd.

LONGi Green Energy Technology Co., Ltd.

JinkoSolar Holding Co., Ltd.

Trina Solar Co., Ltd.

JA Solar Technology Co., Ltd.

Canadian Solar Inc.

Risen Energy Co., Ltd.

Tongwei Co., Ltd.

Gokin Solar Co., Ltd.

Grand Sunergy Tech Co., Ltd.

Huansheng Solar Co., Ltd.

GCL System Integration Technology Co., Ltd.

Meike Solar Co., Ltd.

Akcome Science and Technology Co., Ltd.

Jinergy Co., Ltd.

HuaSun Co., Ltd.

HoRay Solar Co., Ltd.

TW Solar Co., Ltd.

GS-Solar Co., Ltd.

Meyer Burger Technology AG

Hevel Solar LLC

EcoSolifer AG

Sharp Corporation

LG Electronics Inc.

Yingli Solar

Suntech Power Co., Ltd.

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 54-cell Rectangular Silicon Wafer product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 54-cell Rectangular Silicon Wafer, with price, sales quantity, revenue, and global market share of 54-cell Rectangular Silicon Wafer from 2021 to 2026.

Chapter 3, the 54-cell Rectangular Silicon Wafer competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 54-cell Rectangular Silicon Wafer breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and 54-cell Rectangular Silicon Wafer market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 54-cell Rectangular Silicon Wafer.

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