

# Global Single-junction Perovskite Solar Cell Market Research Report 2026(Status and Outlook)

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## Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on Single-junction Perovskite Solar Cell competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. A single-junction perovskite solar cell is a type of solar cell that uses perovskite material as the light-absorbing layer. Perovskite is a material with excellent photoelectric conversion performance, typically composed of metal halides (such as lead and tin) and halogens (such as chlorine, bromine, and iodine). A single junction means the cell has only one photoelectric conversion layer; this layer of perovskite material effectively absorbs light energy and converts it into electrical energy. When sunlight shines on the perovskite material, it absorbs photons and generates electron-hole pairs. These electrons and holes flow to the electrodes through the transport layer in the cell, thus generating current. Perovskite materials have a high light absorption coefficient and a broad spectral response, enabling them to absorb a large amount of light energy in a relatively thin layer. This makes perovskite solar cells highly promising in terms of photoelectric conversion efficiency and material utilization. In 2024, global production of single-junction perovskite solar cells reached 1.569 gigawatts, with an average selling price of US\$0.29 per watt. Gross margins ranged from 29.8% to 33.74%. Upstream raw materials: metal halides, precursors, vapor deposition equipment, printing equipment. Downstream applications include photovoltaic power plants, distributed photovoltaic power generation systems, and building-integrated photovoltaic systems. Production capacity: Hubei Wandu Solar Energy Co., Ltd. has officially settled in Fuyang with a 3GW perovskite photovoltaic cell module production project. The company will simultaneously plan a 30GW perovskite cell module project, a 10,000-ton-per-year perovskite material production project, and a perovskite module equipment project. Case study: Quzhou High-speed Railway New City Phase II rooftop

power station. In Quzhou High-speed Railway New City Phase II, light gray photovoltaic modules were laid on the rooftop of the building to echo the overall architectural design, balancing aesthetics and photovoltaic power generation. Installed capacity: 444kW. Single-junction perovskite solar cells, representing third-generation photovoltaic technology, are gradually becoming a rising force in the global photovoltaic industry due to their high photoelectric conversion efficiency, low material cost, and manufacturing process flexibility. Over the past decade, their efficiency has rapidly increased from single digits to over 25%. With continuous improvements in material stability, encapsulation processes, and large-scale manufacturing processes, the commercial viability of single-junction PSCs is constantly strengthening. At the same time, the growing demand in the photovoltaic market for lightweight, flexible, building-integrated photovoltaics (BIPV), portable, and distributed power generation provides broad application opportunities for the flexible, thin-film, and modular characteristics of perovskite cells. Regarding market growth, multiple market research institutions predict that the perovskite solar cell market will maintain rapid growth from 2025 to the mid-2030s. Considering these factors, single-junction PSCs are expected to gradually move from the laboratory and small-scale pilot production stages to commercial modularization, large-scale production, and market application within the next 5-10 years, becoming an important complementary technology to silicon-based photovoltaics. Meanwhile, its low cost and flexible packaging advantages will also drive its rapid penetration in BIPV, portable devices, distributed photovoltaics, and even complex terrain/lightweight roofs/mobile equipment.

The global Single-junction Perovskite Solar Cell market size was estimated at USD 455.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 40.60% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Single-junction Perovskite Solar Cell market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Single-

junction Perovskite Solar Cell market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Single-junction Perovskite Solar Cell market.

### **Global Single-junction Perovskite Solar Cell Market: Market Segmentation Analysis**

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

### **Key Company**

Saule Technologies  
Active Surfaces  
Taiwan Perovskite Solar Corp.  
Caelux  
Kunshan GCL  
Wondersolar  
Hangzhou MicroQuanta Semiconductor Co., Ltd.  
Liyuan New Energy Technology (Wuxi) Co., Ltd.  
UtmoLight Technology Co., Ltd.  
Dazheng (Jiangsu) Micro Nano Technology Co., Ltd.  
Renshine Solar  
Beijing Yaoneng Photoelectric Technology Co., Ltd.

CATL

Wuhan Jiuyao Photoelectric Technology Co., Ltd.

China Huaneng

YanheSolar

BYD

CNNC Optoelectronics Technology (Shanghai) Co., Ltd.

BOE

Hangzhou Colin Electric Co., Ltd.

Ming Yang Smart Energy Group Limited

Chint Group Corporation

### **Market Segmentation (by Type)**

Mesoporous Structure

Planar Structure

### **Market Segmentation (by Application)**

BIPV

Power Station

Transportation & Mobility

Consumer Electronics

Others

### **Geographic Segmentation**

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

## **Key Benefits of This Market Research:**

Industry drivers, restraints, and opportunities covered in the study  
Neutral perspective on the market performance  
Recent industry trends and developments  
Competitive landscape & strategies of key players  
Potential & niche segments and regions exhibiting promising growth covered  
Historical, current, and projected market size, in terms of value  
In-depth analysis of the Single-junction Perovskite Solar Cell Market  
Overview of the regional outlook of the Single-junction Perovskite Solar Cell Market:

## **Customization of the Report**

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

## **Chapter Outline**

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Single-junction Perovskite Solar Cell Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types,

covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Single-junction Perovskite Solar Cell, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

### **Key Reasons to Buy this Report:**

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

## **Customization of the Report**

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