

Global Large Size Solar Cells Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GB57657590C2EN.html>

Date: May 2026

Pages: 131

Price: US\$ 4,480.00 (Single User License)

ID: GB57657590C2EN

Abstracts

The global Large Size Solar Cells market size is expected to reach \$ 31034 million by 2032, rising at a market growth of 4.6% CAGR during the forecast period (2026-2032).

Large-size solar cells refer to commercialized crystalline-silicon PV cells built mainly on wafer platforms of 182 mm and above, with three mainstream format families: 18X/M10 (182?183.75 mm), 210R rectangular formats (such as 182?210, 182.2?191.6, and 182?199), and 210/G12 (210?210). The relevant technology routes include TOPCon, HJT, and BC (including HPBC/ABC/TBC). In the value chain, these cells sit between polysilicon/wafers and modules, and their direct downstream customers are primarily module manufacturers, while end demand comes from utility-scale projects, C&I rooftops, and residential rooftops. In 2025, China's TOPCon cell prices briefly moved above RMB 0.30/W before falling back to RMB 0.23?0.24/W; at the same time, FOB China M10 TOPCon was around US\$0.0311/W. Under this pricing pressure, gross margins across commodity cell manufacturing were severely compressed.

This report studies the global Large Size Solar Cells production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Large Size Solar Cells and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Large Size Solar Cells that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Large Size Solar Cells total production and demand, 2021-2032, (MW)

Global Large Size Solar Cells total production value, 2021-2032, (USD Million)
Global Large Size Solar Cells production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (MW), (based on production site)
Global Large Size Solar Cells consumption by region & country, CAGR, 2021-2032 & (MW)
U.S. VS China: Large Size Solar Cells domestic production, consumption, key domestic manufacturers and share
Global Large Size Solar Cells production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (MW)
Global Large Size Solar Cells production by Type, production, value, CAGR, 2021-2032, (USD Million) & (MW)
Global Large Size Solar Cells production by Application, production, value, CAGR, 2021-2032, (USD Million) & (MW)

This report profiles key players in the global Large Size Solar Cells market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include SolarSpace, AIKO, Jietai, JinkoSolar, Tongwei, Trina Solar, LONGi, JA Solar, CSI Solar, Astronergy, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Large Size Solar Cells market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (MW) and average price (US\$/KW) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Large Size Solar Cells Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Large Size Solar Cells Market, Segmentation by Type:

TOPCon

HJT

Others

Global Large Size Solar Cells Market, Segmentation by Product Specifications:

18X

210

Others

Global Large Size Solar Cells Market, Segmentation by Application:

Power Plants

Industrial and Commercial

Residential

Other

Companies Profiled:

SolarSpace

AIKO

Jietai

JinkoSolar

Tongwei

Trina Solar

LONGi

JA Solar

CSI Solar

Astronergy

Risen Energy

DMEGC Solar

Huasun

Key Questions Answered:

1. How big is the global Large Size Solar Cells market?
2. What is the demand of the global Large Size Solar Cells market?
3. What is the year over year growth of the global Large Size Solar Cells market?
4. What is the production and production value of the global Large Size Solar Cells market?

5. Who are the key producers in the global Large Size Solar Cells market?
6. What are the growth factors driving the market demand?

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