

# Global Solar Panel Module Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G0BA63A7852DEN.html>

Date: June 2026

Pages: 158

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

ID: G0BA63A7852DEN

## Abstracts

The global Solar Panel Module market size is expected to reach \$ 77033 million by 2032, rising at a market growth of 8.2% CAGR during the forecast period (2026-2032).

Solar panel modules are core units in photovoltaic systems, consisting of multiple solar cells assembled with encapsulation materials to convert sunlight into electricity. They are widely used in utility-scale solar farms, commercial and industrial installations, and residential distributed systems.

Global solar panel modules is projected to reach 536,000 megawatts in 2025, with an average price of \$80 per kilowatt.

The upstream of the industry chain includes silicon materials, wafers, solar cells, glass, EVA films, backsheets, and frames, along with related manufacturing technologies. Downstream applications are concentrated among power developers, commercial and industrial users, and residential customers, covering large-scale ground-mounted power plants, rooftop solar systems, and household distributed installations. Power companies invest in solar plants for stable electricity generation returns, commercial users reduce energy costs and achieve sustainability goals, and residential users benefit from energy independence and lower electricity bills. With the global energy transition, downstream demand continues to grow rapidly, while emerging applications such as building-integrated photovoltaics and agrivoltaics expand market potential.

Development trends include higher efficiency cell technologies such as TOPCon and HJT driving increased module power, the adoption of larger and higher-power modules, and growth in bifacial and lightweight designs. Modules are evolving toward higher reliability, longer lifespan, and lower levelized cost of electricity, while integrating more closely with energy storage and smart energy management systems. Driving factors

include carbon neutrality goals, policy support for renewable energy, rising electricity prices, and cost reductions driven by technological advancements. Constraints include raw material price fluctuations, uncertainties in international trade policies, grid integration challenges, and intense market competition. Overall industry gross margins are relatively low to moderate, typically ranging from 10% to 25%, although leading companies may achieve higher profitability through scale and technological advantages.

This report studies the global Solar Panel Module production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Solar Panel Module 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 Solar Panel Module that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Solar Panel Module total production and demand, 2021-2032, (MW)

Global Solar Panel Module total production value, 2021-2032, (USD Million)

Global Solar Panel Module production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (MW), (based on production site)

Global Solar Panel Module consumption by region & country, CAGR, 2021-2032 & (MW)

U.S. VS China: Solar Panel Module domestic production, consumption, key domestic manufacturers and share

Global Solar Panel Module production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (MW)

Global Solar Panel Module production by Type, production, value, CAGR, 2021-2032, (USD Million) & (MW)

Global Solar Panel Module production by Application, production, value, CAGR, 2021-2032, (USD Million) & (MW)

This report profiles key players in the global Solar Panel Module 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 JinkoSolar, LONGi, Trina Solar, JA Solar, Tongwei Solar, Canadian Solar, Astronergy, Risen Energy, DAS Solar, GCL System Integration, 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 Solar Panel Module 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 Solar Panel Module Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Solar Panel Module Market, Segmentation by Type:

Monocrystalline Modules

Polycrystalline Modules

## Thin-Film Modules

### Global Solar Panel Module Market, Segmentation by Module Power:

Below 450W

450W–550W

550W–700W

Above 700W

### Global Solar Panel Module Market, Segmentation by Conversion Efficiency:

Below 18%

18%–22%

22%–26%

Above 26%

### Global Solar Panel Module Market, Segmentation by Application:

Centralized Ground Photovoltaic Power Station

Industrial and Commercial Distributed Photovoltaics

Residential Rooftop Photovoltaics

Building Integrated Photovoltaics

Off-Grid Energy Storage Power Supply System

**Companies Profiled:**

JinkoSolar

LONGi

Trina Solar

JA Solar

Tongwei Solar

Canadian Solar

Astronergy

Risen Energy

DAS Solar

GCL System Integration

Runergy

First Solar

Qcells

Waaree Energies

Vikram Solar

Premier Energies

Emmvee

Seraphim

Maxeon Solar Technologies

REC Group

Boviet Solar

VSUN

Key Questions Answered:

1. How big is the global Solar Panel Module market?
2. What is the demand of the global Solar Panel Module market?
3. What is the year over year growth of the global Solar Panel Module market?
4. What is the production and production value of the global Solar Panel Module market?
5. Who are the key producers in the global Solar Panel Module market?
6. What are the growth factors driving the market demand?

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