

# Global Solar Cells and Modules Market Growth 2026-2032

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## Abstracts

The global Solar Cells and Modules market size is predicted to grow from US\$ 46770 million in 2025 to US\$ 87520 million in 2032; it is expected to grow at a CAGR of 9.5% from 2026 to 2032.

A solar cell or photovoltaic (PV) cell is a semiconductor device that converts light directly into electricity by the photovoltaic effect. The most common material in solar cell production is purified silicon that can be applied in different ways. A PV module is an assembly of photo-voltaic cells mounted in a framework for installation. Photo-voltaic cells use sunlight as a source of energy and generate direct current electricity. A collection of PV modules is called a PV Panel, and a system of Panels is an Array. Arrays of a photovoltaic system supply solar electricity to electrical equipment.

Upstream, we supply materials such as polysilicon, silicon wafers, silver/copper paste, glass, encapsulant film, backplanes, frames, and junction boxes; downstream customers are mainly developers, EPC contractors, distributors, and power users of residential, industrial and commercial distributed generation, and public utility power plants.

Solar cells and modules serve as the core terminal products of the global photovoltaic industry, undertaking the key functions of light energy capture and electric energy conversion. Widely deployed in centralized power stations, commercial and residential distributed photovoltaic systems, they act as essential support for global low-carbon energy transition and energy structure optimization. The global implementation of carbon neutrality strategies and renewable energy replacement policies forms the core driving force for industrial growth. Countries worldwide are accelerating the phase-out of fossil energy and improving grid-connected supporting systems for photovoltaics,

continuously stimulating global installation demands. Rapid technological iteration empowers industrial upgrading. Advanced high-efficiency cell structures continuously optimize photoelectric conversion performance, while modules evolve toward high power, bifacial power generation and long service life, adapting to diverse geographical and climatic conditions and improving the economic efficiency of photovoltaic power generation. Meanwhile, growing global awareness of energy independence drives local photovoltaic capacity construction to reduce traditional energy import reliance. Improved infrastructure in emerging markets, popularized distributed photovoltaic applications and mature global industrial chain collaboration further accelerate the large-scale popularization and high-quality development of solar cells and modules worldwide.

Despite the expanding global photovoltaic market, the solar cell and module industry faces multiple challenges in globalized development. Trade barriers and fragmented regional policies have become prominent constraints. Various regions enforce localized manufacturing requirements, carbon footprint restrictions and differentiated access standards, raising compliance costs for cross-border product circulation and overseas capacity layout and reshaping global industrial division patterns. Excessively fast technological iteration shortens product upgrade cycles, forcing enterprises to sustain high investment in R&D and production line renovation. Misjudgment of technical routes easily leads to idle capacity and asset depreciation, increasing operational risks. Continuous global capacity expansion triggers severe homogenized competition and structural overcapacity in mid-to-low-end segments. Cut-throat low-price competition squeezes industrial profit margins and weakens long-term innovation capabilities. In addition, uneven grid carrying capacity and immature operation and maintenance systems in emerging markets restrict large-scale grid connection and local installation growth. Fluctuations in upstream material supply chains and inconsistent global environmental and manufacturing supervision standards further increase comprehensive operational pressure, restricting the balanced and sustainable development of the global photovoltaic industry.

LP Information, Inc. (LPI) ' newest research report, the "Solar Cells and Modules Industry Forecast" looks at past sales and reviews total world Solar Cells and Modules sales in 2025, providing a comprehensive analysis by region and market sector of projected Solar Cells and Modules sales for 2026 through 2032. With Solar Cells and Modules sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Solar Cells and Modules industry.

This Insight Report provides a comprehensive analysis of the global Solar Cells and Modules landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Solar Cells and Modules portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Solar Cells and Modules market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Solar Cells and Modules and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Solar Cells and Modules.

This report presents a comprehensive overview, market shares, and growth opportunities of Solar Cells and Modules market by product type, application, key manufacturers and key regions and countries.

#### Segmentation by Type:

Mono-Si Modules

Multi-Si Modules

CdTe Modules

CIGS Modules

A-Si Modules

Others

#### Segmentation by Product:

Solar Cells

Modules

### Segmentation by Installation Environment:

Ground-Mounted Power Station

Rooftop

Agricultural Solar/Aquaculture Solar/Floating Solar

Other

### Segmentation by Application:

PV Power Station

Commercial

Residential

Others

### This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

JinkoSolar

LONGi

JA Solar

First Solar

Canadian Solar

Trina Solar

Hanwha

Risen Energy

Seraphim

Tongwei

Chint Electrics

Solargiga

Shunfeng

Waaree Energies

Jinergy

GCL System

Jolywood

Talesun Solar

Key Questions Addressed in this Report

What is the 10-year outlook for the global Solar Cells and Modules market?

What factors are driving Solar Cells and Modules market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Solar Cells and Modules market opportunities vary by end market size?

How does Solar Cells and Modules break out by Type, by Application?

## Contents

### 1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

### 2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
  - 2.1.1 Global Solar Cells and Modules Annual Sales 2021-2032
  - 2.1.2 World Current & Future Analysis for Solar Cells and Modules by Geographic Region, 2021, 2025 & 2032
  - 2.1.3 World Current & Future Analysis for Solar Cells and Modules by Country/Region, 2021, 2025 & 2032
- 2.2 Solar Cells and Modules Segment by Type
  - 2.2.1 Mono-Si Modules
  - 2.2.2 Multi-Si Modules
  - 2.2.3 CdTe Modules
  - 2.2.4 CIGS Modules
  - 2.2.5 A-Si Modules
  - 2.2.6 Others
  - 2.2.7 Solar Cells and Modules Sales by Type
    - 2.2.7.1 Global Solar Cells and Modules Sales Market Share by Type (2021-2026)
    - 2.2.7.2 Global Solar Cells and Modules Revenue and Market Share by Type (2021-2026)
    - 2.2.7.3 Global Solar Cells and Modules Sale Price by Type (2021-2026)
- 2.3 Solar Cells and Modules Segment by Product
  - 2.3.1 Solar Cells
  - 2.3.2 Modules
  - 2.3.3 Solar Cells and Modules Sales by Product
    - 2.3.3.1 Global Solar Cells and Modules Sales Market Share by Product (2021-2026)
    - 2.3.3.2 Global Solar Cells and Modules Revenue and Market Share by Product

(2021-2026)

2.3.3.3 Global Solar Cells and Modules Sale Price by Product (2021-2026)

2.4 Solar Cells and Modules Segment by Installation Environment

2.4.1 Ground-Mounted Power Station

2.4.2 Rooftop

2.4.3 Agricultural Solar/Aquaculture Solar/Floating Solar

2.4.4 Other

2.4.5 Solar Cells and Modules Sales by Installation Environment

2.4.5.1 Global Solar Cells and Modules Sales Market Share by Installation Environment (2021-2026)

2.4.5.2 Global Solar Cells and Modules Revenue and Market Share by Installation Environment (2021-2026)

2.4.5.3 Global Solar Cells and Modules Sale Price by Installation Environment (2021-2026)

2.5 Solar Cells and Modules Segment by Application

2.5.1 PV Power Station

2.5.2 Commercial

2.5.3 Residential

2.5.4 Others

2.5.5 Solar Cells and Modules Sales by Application

2.5.5.1 Global Solar Cells and Modules Sale Market Share by Application (2021-2026)

2.5.5.2 Global Solar Cells and Modules Revenue and Market Share by Application (2021-2026)

2.5.5.3 Global Solar Cells and Modules Sale Price by Application (2021-2026)

### **3 GLOBAL BY COMPANY**

3.1 Global Solar Cells and Modules Breakdown Data by Company

3.1.1 Global Solar Cells and Modules Annual Sales by Company (2021-2026)

3.1.2 Global Solar Cells and Modules Sales Market Share by Company (2021-2026)

3.2 Global Solar Cells and Modules Annual Revenue by Company (2021-2026)

3.2.1 Global Solar Cells and Modules Revenue by Company (2021-2026)

3.2.2 Global Solar Cells and Modules Revenue Market Share by Company (2021-2026)

3.3 Global Solar Cells and Modules Sale Price by Company

3.4 Key Manufacturers Solar Cells and Modules Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Solar Cells and Modules Product Location Distribution

- 3.4.2 Players Solar Cells and Modules Products Offered
- 3.5 Market Concentration Rate Analysis
  - 3.5.1 Competition Landscape Analysis
  - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

## **4 WORLD HISTORIC REVIEW FOR SOLAR CELLS AND MODULES BY GEOGRAPHIC REGION**

- 4.1 World Historic Solar Cells and Modules Market Size by Geographic Region (2021-2026)
  - 4.1.1 Global Solar Cells and Modules Annual Sales by Geographic Region (2021-2026)
  - 4.1.2 Global Solar Cells and Modules Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Solar Cells and Modules Market Size by Country/Region (2021-2026)
  - 4.2.1 Global Solar Cells and Modules Annual Sales by Country/Region (2021-2026)
  - 4.2.2 Global Solar Cells and Modules Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Solar Cells and Modules Sales Growth
- 4.4 APAC Solar Cells and Modules Sales Growth
- 4.5 Europe Solar Cells and Modules Sales Growth
- 4.6 Middle East & Africa Solar Cells and Modules Sales Growth

## **5 AMERICAS**

- 5.1 Americas Solar Cells and Modules Sales by Country
  - 5.1.1 Americas Solar Cells and Modules Sales by Country (2021-2026)
  - 5.1.2 Americas Solar Cells and Modules Revenue by Country (2021-2026)
- 5.2 Americas Solar Cells and Modules Sales by Type (2021-2026)
- 5.3 Americas Solar Cells and Modules Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

## **6 APAC**

## 6.1 APAC Solar Cells and Modules Sales by Region

6.1.1 APAC Solar Cells and Modules Sales by Region (2021-2026)

6.1.2 APAC Solar Cells and Modules Revenue by Region (2021-2026)

## 6.2 APAC Solar Cells and Modules Sales by Type (2021-2026)

## 6.3 APAC Solar Cells and Modules Sales by Application (2021-2026)

### 6.4 China

### 6.5 Japan

### 6.6 South Korea

### 6.7 Southeast Asia

### 6.8 India

### 6.9 Australia

### 6.10 China Taiwan

## 7 EUROPE

### 7.1 Europe Solar Cells and Modules by Country

7.1.1 Europe Solar Cells and Modules Sales by Country (2021-2026)

7.1.2 Europe Solar Cells and Modules Revenue by Country (2021-2026)

### 7.2 Europe Solar Cells and Modules Sales by Type (2021-2026)

### 7.3 Europe Solar Cells and Modules Sales by Application (2021-2026)

### 7.4 Germany

### 7.5 France

### 7.6 UK

### 7.7 Italy

### 7.8 Russia

## 8 MIDDLE EAST & AFRICA

### 8.1 Middle East & Africa Solar Cells and Modules by Country

8.1.1 Middle East & Africa Solar Cells and Modules Sales by Country (2021-2026)

8.1.2 Middle East & Africa Solar Cells and Modules Revenue by Country (2021-2026)

### 8.2 Middle East & Africa Solar Cells and Modules Sales by Type (2021-2026)

### 8.3 Middle East & Africa Solar Cells and Modules Sales by Application (2021-2026)

### 8.4 Egypt

### 8.5 South Africa

### 8.6 Israel

### 8.7 Turkey

### 8.8 GCC Countries

## **9 MARKET DRIVERS, CHALLENGES AND TRENDS**

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

## **10 MANUFACTURING COST STRUCTURE ANALYSIS**

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Solar Cells and Modules

10.3 Manufacturing Process Analysis of Solar Cells and Modules

10.4 Industry Chain Structure of Solar Cells and Modules

## **11 MARKETING, DISTRIBUTORS AND CUSTOMER**

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Solar Cells and Modules Distributors

11.3 Solar Cells and Modules Customer

## **12 WORLD FORECAST REVIEW FOR SOLAR CELLS AND MODULES BY GEOGRAPHIC REGION**

12.1 Global Solar Cells and Modules Market Size Forecast by Region

12.1.1 Global Solar Cells and Modules Forecast by Region (2027-2032)

12.1.2 Global Solar Cells and Modules Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Solar Cells and Modules Forecast by Type (2027-2032)

12.7 Global Solar Cells and Modules Forecast by Application (2027-2032)

## **13 KEY PLAYERS ANALYSIS**

13.1 JinkoSolar

13.1.1 JinkoSolar Company Information

- 13.1.2 JinkoSolar Solar Cells and Modules Product Portfolios and Specifications
- 13.1.3 JinkoSolar Solar Cells and Modules Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.1.4 JinkoSolar Main Business Overview
- 13.1.5 JinkoSolar Latest Developments
- 13.2 LONGi
  - 13.2.1 LONGi Company Information
  - 13.2.2 LONGi Solar Cells and Modules Product Portfolios and Specifications
  - 13.2.3 LONGi Solar Cells and Modules Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.2.4 LONGi Main Business Overview
  - 13.2.5 LONGi Latest Developments
- 13.3 JA Solar
  - 13.3.1 JA Solar Company Information
  - 13.3.2 JA Solar Solar Cells and Modules Product Portfolios and Specifications
  - 13.3.3 JA Solar Solar Cells and Modules Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.3.4 JA Solar Main Business Overview
  - 13.3.5 JA Solar Latest Developments
- 13.4 First Solar
  - 13.4.1 First Solar Company Information
  - 13.4.2 First Solar Solar Cells and Modules Product Portfolios and Specifications
  - 13.4.3 First Solar Solar Cells and Modules Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.4.4 First Solar Main Business Overview
  - 13.4.5 First Solar Latest Developments
- 13.5 Canadian Solar
  - 13.5.1 Canadian Solar Company Information
  - 13.5.2 Canadian Solar Solar Cells and Modules Product Portfolios and Specifications
  - 13.5.3 Canadian Solar Solar Cells and Modules Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.5.4 Canadian Solar Main Business Overview
  - 13.5.5 Canadian Solar Latest Developments
- 13.6 Trina Solar
  - 13.6.1 Trina Solar Company Information
  - 13.6.2 Trina Solar Solar Cells and Modules Product Portfolios and Specifications
  - 13.6.3 Trina Solar Solar Cells and Modules Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.6.4 Trina Solar Main Business Overview

### 13.6.5 Trina Solar Latest Developments

### 13.7 Hanwha

#### 13.7.1 Hanwha Company Information

#### 13.7.2 Hanwha Solar Cells and Modules Product Portfolios and Specifications

#### 13.7.3 Hanwha Solar Cells and Modules Sales, Revenue, Price and Gross Margin (2021-2026)

#### 13.7.4 Hanwha Main Business Overview

#### 13.7.5 Hanwha Latest Developments

### 13.8 Risen Energy

#### 13.8.1 Risen Energy Company Information

#### 13.8.2 Risen Energy Solar Cells and Modules Product Portfolios and Specifications

#### 13.8.3 Risen Energy Solar Cells and Modules Sales, Revenue, Price and Gross Margin (2021-2026)

#### 13.8.4 Risen Energy Main Business Overview

#### 13.8.5 Risen Energy Latest Developments

### 13.9 Seraphim

#### 13.9.1 Seraphim Company Information

#### 13.9.2 Seraphim Solar Cells and Modules Product Portfolios and Specifications

#### 13.9.3 Seraphim Solar Cells and Modules Sales, Revenue, Price and Gross Margin (2021-2026)

#### 13.9.4 Seraphim Main Business Overview

#### 13.9.5 Seraphim Latest Developments

### 13.10 Tongwei

#### 13.10.1 Tongwei Company Information

#### 13.10.2 Tongwei Solar Cells and Modules Product Portfolios and Specifications

#### 13.10.3 Tongwei Solar Cells and Modules Sales, Revenue, Price and Gross Margin (2021-2026)

#### 13.10.4 Tongwei Main Business Overview

#### 13.10.5 Tongwei Latest Developments

### 13.11 Chint Electrics

#### 13.11.1 Chint Electrics Company Information

#### 13.11.2 Chint Electrics Solar Cells and Modules Product Portfolios and Specifications

#### 13.11.3 Chint Electrics Solar Cells and Modules Sales, Revenue, Price and Gross Margin (2021-2026)

#### 13.11.4 Chint Electrics Main Business Overview

#### 13.11.5 Chint Electrics Latest Developments

### 13.12 Solargiga

#### 13.12.1 Solargiga Company Information

#### 13.12.2 Solargiga Solar Cells and Modules Product Portfolios and Specifications

13.12.3 Solargiga Solar Cells and Modules Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Solargiga Main Business Overview

13.12.5 Solargiga Latest Developments

13.13 Shunfeng

13.13.1 Shunfeng Company Information

13.13.2 Shunfeng Solar Cells and Modules Product Portfolios and Specifications

13.13.3 Shunfeng Solar Cells and Modules Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 Shunfeng Main Business Overview

13.13.5 Shunfeng Latest Developments

13.14 Waaree Energies

13.14.1 Waaree Energies Company Information

13.14.2 Waaree Energies Solar Cells and Modules Product Portfolios and Specifications

13.14.3 Waaree Energies Solar Cells and Modules Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 Waaree Energies Main Business Overview

13.14.5 Waaree Energies Latest Developments

13.15 Jinergy

13.15.1 Jinergy Company Information

13.15.2 Jinergy Solar Cells and Modules Product Portfolios and Specifications

13.15.3 Jinergy Solar Cells and Modules Sales, Revenue, Price and Gross Margin (2021-2026)

13.15.4 Jinergy Main Business Overview

13.15.5 Jinergy Latest Developments

13.16 GCL System

13.16.1 GCL System Company Information

13.16.2 GCL System Solar Cells and Modules Product Portfolios and Specifications

13.16.3 GCL System Solar Cells and Modules Sales, Revenue, Price and Gross Margin (2021-2026)

13.16.4 GCL System Main Business Overview

13.16.5 GCL System Latest Developments

13.17 Jolywood

13.17.1 Jolywood Company Information

13.17.2 Jolywood Solar Cells and Modules Product Portfolios and Specifications

13.17.3 Jolywood Solar Cells and Modules Sales, Revenue, Price and Gross Margin (2021-2026)

13.17.4 Jolywood Main Business Overview

13.17.5 Jolywood Latest Developments

13.18 Talesun Solar

13.18.1 Talesun Solar Company Information

13.18.2 Talesun Solar Solar Cells and Modules Product Portfolios and Specifications

13.18.3 Talesun Solar Solar Cells and Modules Sales, Revenue, Price and Gross  
Margin (2021-2026)

13.18.4 Talesun Solar Main Business Overview

13.18.5 Talesun Solar Latest Developments

## **14 RESEARCH FINDINGS AND CONCLUSION**

## List Of Tables

### LIST OF TABLES

Table 1. Solar Cells and Modules Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Solar Cells and Modules Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Mono-Si Modules

Table 4. Major Players of Multi-Si Modules

Table 5. Major Players of CdTe Modules

Table 6. Major Players of CIGS Modules

Table 7. Major Players of A-Si Modules

Table 8. Major Players of Others

Table 9. Global Solar Cells and Modules Sales by Type (2021-2026) & (MW)

Table 10. Global Solar Cells and Modules Sales Market Share by Type (2021-2026)

Table 11. Global Solar Cells and Modules Revenue by Type (2021-2026) & (\$ million)

Table 12. Global Solar Cells and Modules Revenue Market Share by Type (2021-2026)

Table 13. Global Solar Cells and Modules Sale Price by Type (2021-2026) & (US\$/W)

Table 14. Major Players of Solar Cells

Table 15. Major Players of Modules

Table 16. Global Solar Cells and Modules Sales by Product (2021-2026) & (MW)

Table 17. Global Solar Cells and Modules Sales Market Share by Product (2021-2026)

Table 18. Global Solar Cells and Modules Revenue by Product (2021-2026) & (\$ million)

Table 19. Global Solar Cells and Modules Revenue Market Share by Product (2021-2026)

Table 20. Global Solar Cells and Modules Sale Price by Product (2021-2026) & (US\$/W)

Table 21. Major Players of Ground-Mounted Power Station

Table 22. Major Players of Rooftop

Table 23. Major Players of Agricultural Solar/Aquaculture Solar/Floating Solar

Table 24. Major Players of Other

Table 25. Global Solar Cells and Modules Sales by Installation Environment (2021-2026) & (MW)

Table 26. Global Solar Cells and Modules Sales Market Share by Installation Environment (2021-2026)

Table 27. Global Solar Cells and Modules Revenue by Installation Environment (2021-2026) & (\$ million)

Table 28. Global Solar Cells and Modules Revenue Market Share by Installation Environment (2021-2026)

Table 29. Global Solar Cells and Modules Sale Price by Installation Environment (2021-2026) & (US\$/W)

Table 30. Global Solar Cells and Modules Sale by Application (2021-2026) & (MW)

Table 31. Global Solar Cells and Modules Sale Market Share by Application (2021-2026)

Table 32. Global Solar Cells and Modules Revenue by Application (2021-2026) & (\$ million)

Table 33. Global Solar Cells and Modules Revenue Market Share by Application (2021-2026)

Table 34. Global Solar Cells and Modules Sale Price by Application (2021-2026) & (US\$/W)

Table 35. Global Solar Cells and Modules Sales by Company (2021-2026) & (MW)

Table 36. Global Solar Cells and Modules Sales Market Share by Company (2021-2026)

Table 37. Global Solar Cells and Modules Revenue by Company (2021-2026) & (\$ millions)

Table 38. Global Solar Cells and Modules Revenue Market Share by Company (2021-2026)

Table 39. Global Solar Cells and Modules Sale Price by Company (2021-2026) & (US\$/W)

Table 40. Key Manufacturers Solar Cells and Modules Producing Area Distribution and Sales Area

Table 41. Players Solar Cells and Modules Products Offered

Table 42. Solar Cells and Modules Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 43. New Products and Potential Entrants

Table 44. Market M&A Activity & Strategy

Table 45. Global Solar Cells and Modules Sales by Geographic Region (2021-2026) & (MW)

Table 46. Global Solar Cells and Modules Sales Market Share Geographic Region (2021-2026)

Table 47. Global Solar Cells and Modules Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 48. Global Solar Cells and Modules Revenue Market Share by Geographic Region (2021-2026)

Table 49. Global Solar Cells and Modules Sales by Country/Region (2021-2026) & (MW)

Table 50. Global Solar Cells and Modules Sales Market Share by Country/Region (2021-2026)

Table 51. Global Solar Cells and Modules Revenue by Country/Region (2021-2026) & (\$ millions)

Table 52. Global Solar Cells and Modules Revenue Market Share by Country/Region (2021-2026)

Table 53. Americas Solar Cells and Modules Sales by Country (2021-2026) & (MW)

Table 54. Americas Solar Cells and Modules Sales Market Share by Country (2021-2026)

Table 55. Americas Solar Cells and Modules Revenue by Country (2021-2026) & (\$ millions)

Table 56. Americas Solar Cells and Modules Sales by Type (2021-2026) & (MW)

Table 57. Americas Solar Cells and Modules Sales by Application (2021-2026) & (MW)

Table 58. APAC Solar Cells and Modules Sales by Region (2021-2026) & (MW)

Table 59. APAC Solar Cells and Modules Sales Market Share by Region (2021-2026)

Table 60. APAC Solar Cells and Modules Revenue by Region (2021-2026) & (\$ millions)

Table 61. APAC Solar Cells and Modules Sales by Type (2021-2026) & (MW)

Table 62. APAC Solar Cells and Modules Sales by Application (2021-2026) & (MW)

Table 63. Europe Solar Cells and Modules Sales by Country (2021-2026) & (MW)

Table 64. Europe Solar Cells and Modules Revenue by Country (2021-2026) & (\$ millions)

Table 65. Europe Solar Cells and Modules Sales by Type (2021-2026) & (MW)

Table 66. Europe Solar Cells and Modules Sales by Application (2021-2026) & (MW)

Table 67. Middle East & Africa Solar Cells and Modules Sales by Country (2021-2026) & (MW)

Table 68. Middle East & Africa Solar Cells and Modules Revenue Market Share by Country (2021-2026)

Table 69. Middle East & Africa Solar Cells and Modules Sales by Type (2021-2026) & (MW)

Table 70. Middle East & Africa Solar Cells and Modules Sales by Application (2021-2026) & (MW)

Table 71. Key Market Drivers & Growth Opportunities of Solar Cells and Modules

Table 72. Key Market Challenges & Risks of Solar Cells and Modules

Table 73. Key Industry Trends of Solar Cells and Modules

Table 74. Solar Cells and Modules Raw Material

Table 75. Key Suppliers of Raw Materials

Table 76. Solar Cells and Modules Distributors List

Table 77. Solar Cells and Modules Customer List

Table 78. Global Solar Cells and Modules Sales Forecast by Region (2027-2032) & (MW)

Table 79. Global Solar Cells and Modules Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 80. Americas Solar Cells and Modules Sales Forecast by Country (2027-2032) & (MW)

Table 81. Americas Solar Cells and Modules Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 82. APAC Solar Cells and Modules Sales Forecast by Region (2027-2032) & (MW)

Table 83. APAC Solar Cells and Modules Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 84. Europe Solar Cells and Modules Sales Forecast by Country (2027-2032) & (MW)

Table 85. Europe Solar Cells and Modules Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 86. Middle East & Africa Solar Cells and Modules Sales Forecast by Country (2027-2032) & (MW)

Table 87. Middle East & Africa Solar Cells and Modules Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 88. Global Solar Cells and Modules Sales Forecast by Type (2027-2032) & (MW)

Table 89. Global Solar Cells and Modules Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 90. Global Solar Cells and Modules Sales Forecast by Application (2027-2032) & (MW)

Table 91. Global Solar Cells and Modules Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 92. JinkoSolar Basic Information, Solar Cells and Modules Manufacturing Base, Sales Area and Its Competitors

Table 93. JinkoSolar Solar Cells and Modules Product Portfolios and Specifications

Table 94. JinkoSolar Solar Cells and Modules Sales (MW), Revenue (\$ Million), Price (US\$/W) and Gross Margin (2021-2026)

Table 95. JinkoSolar Main Business

Table 96. JinkoSolar Latest Developments

Table 97. LONGi Basic Information, Solar Cells and Modules Manufacturing Base, Sales Area and Its Competitors

Table 98. LONGi Solar Cells and Modules Product Portfolios and Specifications

Table 99. LONGi Solar Cells and Modules Sales (MW), Revenue (\$ Million), Price (US\$/W) and Gross Margin (2021-2026)

Table 100. LONGi Main Business

Table 101. LONGi Latest Developments

Table 102. JA Solar Basic Information, Solar Cells and Modules Manufacturing Base, Sales Area and Its Competitors

Table 103. JA Solar Solar Cells and Modules Product Portfolios and Specifications

Table 104. JA Solar Solar Cells and Modules Sales (MW), Revenue (\$ Million), Price (US\$/W) and Gross Margin (2021-2026)

Table 105. JA Solar Main Business

Table 106. JA Solar Latest Developments

Table 107. First Solar Basic Information, Solar Cells and Modules Manufacturing Base, Sales Area and Its Competitors

Table 108. First Solar Solar Cells and Modules Product Portfolios and Specifications

Table 109. First Solar Solar Cells and Modules Sales (MW), Revenue (\$ Million), Price (US\$/W) and Gross Margin (2021-2026)

Table 110. First Solar Main Business

Table 111. First Solar Latest Developments

Table 112. Canadian Solar Basic Information, Solar Cells and Modules Manufacturing Base, Sales Area and Its Competitors

Table 113. Canadian Solar Solar Cells and Modules Product Portfolios and Specifications

Table 114. Canadian Solar Solar Cells and Modules Sales (MW), Revenue (\$ Million), Price (US\$/W) and Gross Margin (2021-2026)

Table 115. Canadian Solar Main Business

Table 116. Canadian Solar Latest Developments

Table 117. Trina Solar Basic Information, Solar Cells and Modules Manufacturing Base, Sales Area and Its Competitors

Table 118. Trina Solar Solar Cells and Modules Product Portfolios and Specifications

Table 119. Trina Solar Solar Cells and Modules Sales (MW), Revenue (\$ Million), Price (US\$/W) and Gross Margin (2021-2026)

Table 120. Trina Solar Main Business

Table 121. Trina Solar Latest Developments

Table 122. Hanwha Basic Information, Solar Cells and Modules Manufacturing Base, Sales Area and Its Competitors

Table 123. Hanwha Solar Cells and Modules Product Portfolios and Specifications

Table 124. Hanwha Solar Cells and Modules Sales (MW), Revenue (\$ Million), Price (US\$/W) and Gross Margin (2021-2026)

Table 125. Hanwha Main Business

Table 126. Hanwha Latest Developments

Table 127. Risen Energy Basic Information, Solar Cells and Modules Manufacturing

Base, Sales Area and Its Competitors

Table 128. Risen Energy Solar Cells and Modules Product Portfolios and Specifications

Table 129. Risen Energy Solar Cells and Modules Sales (MW), Revenue (\$ Million), Price (US\$/W) and Gross Margin (2021-2026)

Table 130. Risen Energy Main Business

Table 131. Risen Energy Latest Developments

Table 132. Seraphim Basic Information, Solar Cells and Modules Manufacturing Base, Sales Area and Its Competitors

Table 133. Seraphim Solar Cells and Modules Product Portfolios and Specifications

Table 134. Seraphim Solar Cells and Modules Sales (MW), Revenue (\$ Million), Price (US\$/W) and Gross Margin (2021-2026)

Table 135. Seraphim Main Business

Table 136. Seraphim Latest Developments

Table 137. Tongwei Basic Information, Solar Cells and Modules Manufacturing Base, Sales Area and Its Competitors

Table 138. Tongwei Solar Cells and Modules Product Portfolios and Specifications

Table 139. Tongwei Solar Cells and Modules Sales (MW), Revenue (\$ Million), Price (US\$/W) and Gross Margin (2021-2026)

Table 140. Tongwei Main Business

Table 141. Tongwei Latest Developments

Table 142. Chint Electrics Basic Information, Solar Cells and Modules Manufacturing Base, Sales Area and Its Competitors

Table 143. Chint Electrics Solar Cells and Modules Product Portfolios and Specifications

Table 144. Chint Electrics Solar Cells and Modules Sales (MW), Revenue (\$ Million), Price (US\$/W) and Gross Margin (2021-2026)

Table 145. Chint Electrics Main Business

Table 146. Chint Electrics Latest Developments

Table 147. Solargiga Basic Information, Solar Cells and Modules Manufacturing Base, Sales Area and Its Competitors

Table 148. Solargiga Solar Cells and Modules Product Portfolios and Specifications

Table 149. Solargiga Solar Cells and Modules Sales (MW), Revenue (\$ Million), Price (US\$/W) and Gross Margin (2021-2026)

Table 150. Solargiga Main Business

Table 151. Solargiga Latest Developments

Table 152. Shunfeng Basic Information, Solar Cells and Modules Manufacturing Base, Sales Area and Its Competitors

Table 153. Shunfeng Solar Cells and Modules Product Portfolios and Specifications

Table 154. Shunfeng Solar Cells and Modules Sales (MW), Revenue (\$ Million), Price

(US\$/W) and Gross Margin (2021-2026)

Table 155. Shunfeng Main Business

Table 156. Shunfeng Latest Developments

Table 157. Waaree Energies Basic Information, Solar Cells and Modules Manufacturing Base, Sales Area and Its Competitors

Table 158. Waaree Energies Solar Cells and Modules Product Portfolios and Specifications

Table 159. Waaree Energies Solar Cells and Modules Sales (MW), Revenue (\$ Million), Price (US\$/W) and Gross Margin (2021-2026)

Table 160. Waaree Energies Main Business

Table 161. Waaree Energies Latest Developments

Table 162. Jinergy Basic Information, Solar Cells and Modules Manufacturing Base, Sales Area and Its Competitors

Table 163. Jinergy Solar Cells and Modules Product Portfolios and Specifications

Table 164. Jinergy Solar Cells and Modules Sales (MW), Revenue (\$ Million), Price (US\$/W) and Gross Margin (2021-2026)

Table 165. Jinergy Main Business

Table 166. Jinergy Latest Developments

Table 167. GCL System Basic Information, Solar Cells and Modules Manufacturing Base, Sales Area and Its Competitors

Table 168. GCL System Solar Cells and Modules Product Portfolios and Specifications

Table 169. GCL System Solar Cells and Modules Sales (MW), Revenue (\$ Million), Price (US\$/W) and Gross Margin (2021-2026)

Table 170. GCL System Main Business

Table 171. GCL System Latest Developments

Table 172. Jolywood Basic Information, Solar Cells and Modules Manufacturing Base, Sales Area and Its Competitors

Table 173. Jolywood Solar Cells and Modules Product Portfolios and Specifications

Table 174. Jolywood Solar Cells and Modules Sales (MW), Revenue (\$ Million), Price (US\$/W) and Gross Margin (2021-2026)

Table 175. Jolywood Main Business

Table 176. Jolywood Latest Developments

Table 177. Talesun Solar Basic Information, Solar Cells and Modules Manufacturing Base, Sales Area and Its Competitors

Table 178. Talesun Solar Solar Cells and Modules Product Portfolios and Specifications

Table 179. Talesun Solar Solar Cells and Modules Sales (MW), Revenue (\$ Million), Price (US\$/W) and Gross Margin (2021-2026)

Table 180. Talesun Solar Main Business

Table 181. Talesun Solar Latest Developments



## List Of Figures

### LIST OF FIGURES

- Figure 1. Picture of Solar Cells and Modules
- Figure 2. Solar Cells and Modules Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Solar Cells and Modules Sales Growth Rate 2021-2032 (MW)
- Figure 7. Global Solar Cells and Modules Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Solar Cells and Modules Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Solar Cells and Modules Sales Market Share by Country/Region (2025)
- Figure 10. Solar Cells and Modules Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Mono-Si Modules
- Figure 12. Product Picture of Multi-Si Modules
- Figure 13. Product Picture of CdTe Modules
- Figure 14. Product Picture of CIGS Modules
- Figure 15. Product Picture of A-Si Modules
- Figure 16. Product Picture of Others
- Figure 17. Global Solar Cells and Modules Sales Market Share by Type in 2026
- Figure 18. Global Solar Cells and Modules Revenue Market Share by Type (2021-2026)
- Figure 19. Product Picture of Solar Cells
- Figure 20. Product Picture of Modules
- Figure 21. Global Solar Cells and Modules Sales Market Share by Product in 2026
- Figure 22. Global Solar Cells and Modules Revenue Market Share by Product (2021-2026)
- Figure 23. Product Picture of Ground-Mounted Power Station
- Figure 24. Product Picture of Rooftop
- Figure 25. Product Picture of Agricultural Solar/Aquaculture Solar/Floating Solar
- Figure 26. Product Picture of Other
- Figure 27. Global Solar Cells and Modules Sales Market Share by Installation Environment in 2026
- Figure 28. Global Solar Cells and Modules Revenue Market Share by Installation Environment (2021-2026)
- Figure 29. Solar Cells and Modules Consumed in PV Power Station
- Figure 30. Global Solar Cells and Modules Market: PV Power Station (2021-2026) &

(MW)

Figure 31. Solar Cells and Modules Consumed in Commercial

Figure 32. Global Solar Cells and Modules Market: Commercial (2021-2026) & (MW)

Figure 33. Solar Cells and Modules Consumed in Residential

Figure 34. Global Solar Cells and Modules Market: Residential (2021-2026) & (MW)

Figure 35. Solar Cells and Modules Consumed in Others

Figure 36. Global Solar Cells and Modules Market: Others (2021-2026) & (MW)

Figure 37. Global Solar Cells and Modules Sale Market Share by Application (2025)

Figure 38. Global Solar Cells and Modules Revenue Market Share by Application in 2025

Figure 39. Solar Cells and Modules Sales by Company in 2025 (MW)

Figure 40. Global Solar Cells and Modules Sales Market Share by Company in 2025

Figure 41. Solar Cells and Modules Revenue by Company in 2025 (\$ millions)

Figure 42. Global Solar Cells and Modules Revenue Market Share by Company in 2025

Figure 43. Global Solar Cells and Modules Sales Market Share by Geographic Region (2021-2026)

Figure 44. Global Solar Cells and Modules Revenue Market Share by Geographic Region in 2025

Figure 45. Americas Solar Cells and Modules Sales 2021-2026 (MW)

Figure 46. Americas Solar Cells and Modules Revenue 2021-2026 (\$ millions)

Figure 47. APAC Solar Cells and Modules Sales 2021-2026 (MW)

Figure 48. APAC Solar Cells and Modules Revenue 2021-2026 (\$ millions)

Figure 49. Europe Solar Cells and Modules Sales 2021-2026 (MW)

Figure 50. Europe Solar Cells and Modules Revenue 2021-2026 (\$ millions)

Figure 51. Middle East & Africa Solar Cells and Modules Sales 2021-2026 (MW)

Figure 52. Middle East & Africa Solar Cells and Modules Revenue 2021-2026 (\$ millions)

Figure 53. Americas Solar Cells and Modules Sales Market Share by Country in 2025

Figure 54. Americas Solar Cells and Modules Revenue Market Share by Country (2021-2026)

Figure 55. Americas Solar Cells and Modules Sales Market Share by Type (2021-2026)

Figure 56. Americas Solar Cells and Modules Sales Market Share by Application (2021-2026)

Figure 57. United States Solar Cells and Modules Revenue Growth 2021-2026 (\$ millions)

Figure 58. Canada Solar Cells and Modules Revenue Growth 2021-2026 (\$ millions)

Figure 59. Mexico Solar Cells and Modules Revenue Growth 2021-2026 (\$ millions)

Figure 60. Brazil Solar Cells and Modules Revenue Growth 2021-2026 (\$ millions)

Figure 61. APAC Solar Cells and Modules Sales Market Share by Region in 2025

Figure 62. APAC Solar Cells and Modules Revenue Market Share by Region (2021-2026)

Figure 63. APAC Solar Cells and Modules Sales Market Share by Type (2021-2026)

Figure 64. APAC Solar Cells and Modules Sales Market Share by Application (2021-2026)

Figure 65. China Solar Cells and Modules Revenue Growth 2021-2026 (\$ millions)

Figure 66. Japan Solar Cells and Modules Revenue Growth 2021-2026 (\$ millions)

Figure 67. South Korea Solar Cells and Modules Revenue Growth 2021-2026 (\$ millions)

Figure 68. Southeast Asia Solar Cells and Modules Revenue Growth 2021-2026 (\$ millions)

Figure 69. India Solar Cells and Modules Revenue Growth 2021-2026 (\$ millions)

Figure 70. Australia Solar Cells and Modules Revenue Growth 2021-2026 (\$ millions)

Figure 71. China Taiwan Solar Cells and Modules Revenue Growth 2021-2026 (\$ millions)

Figure 72. Europe Solar Cells and Modules Sales Market Share by Country in 2025

Figure 73. Europe Solar Cells and Modules Revenue Market Share by Country (2021-2026)

Figure 74. Europe Solar Cells and Modules Sales Market Share by Type (2021-2026)

Figure 75. Europe Solar Cells and Modules Sales Market Share by Application (2021-2026)

Figure 76. Germany Solar Cells and Modules Revenue Growth 2021-2026 (\$ millions)

Figure 77. France Solar Cells and Modules Revenue Growth 2021-2026 (\$ millions)

Figure 78. UK Solar Cells and Modules Revenue Growth 2021-2026 (\$ millions)

Figure 79. Italy Solar Cells and Modules Revenue Growth 2021-2026 (\$ millions)

Figure 80. Russia Solar Cells and Modules Revenue Growth 2021-2026 (\$ millions)

Figure 81. Middle East & Africa Solar Cells and Modules Sales Market Share by Country (2021-2026)

Figure 82. Middle East & Africa Solar Cells and Modules Sales Market Share by Type (2021-2026)

Figure 83. Middle East & Africa Solar Cells and Modules Sales Market Share by Application (2021-2026)

Figure 84. Egypt Solar Cells and Modules Revenue Growth 2021-2026 (\$ millions)

Figure 85. South Africa Solar Cells and Modules Revenue Growth 2021-2026 (\$ millions)

Figure 86. Israel Solar Cells and Modules Revenue Growth 2021-2026 (\$ millions)

Figure 87. Turkey Solar Cells and Modules Revenue Growth 2021-2026 (\$ millions)

Figure 88. GCC Countries Solar Cells and Modules Revenue Growth 2021-2026 (\$ millions)

Figure 89. Manufacturing Cost Structure Analysis of Solar Cells and Modules in 2026

Figure 90. Manufacturing Process Analysis of Solar Cells and Modules

Figure 91. Industry Chain Structure of Solar Cells and Modules

Figure 92. Channels of Distribution

Figure 93. Global Solar Cells and Modules Sales Market Forecast by Region  
(2027-2032)

Figure 94. Global Solar Cells and Modules Revenue Market Share Forecast by Region  
(2027-2032)

Figure 95. Global Solar Cells and Modules Sales Market Share Forecast by Type  
(2027-2032)

Figure 96. Global Solar Cells and Modules Revenue Market Share Forecast by Type  
(2027-2032)

Figure 97. Global Solar Cells and Modules Sales Market Share Forecast by Application  
(2027-2032)

Figure 98. Global Solar Cells and Modules Revenue Market Share Forecast by  
Application (2027-2032)

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