

Global Solar Cells and Modules Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Solar Cells and Modules market size was valued at US\$ 45440 million in 2024 and is forecast to a readjusted size of USD 82440 million by 2031 with a CAGR of 9.0% during review period.

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.

JinkoSolar, JA Solar, Canadian Solar, Trina Solar and Hanwha Solutions are the top 5 of Solar Cells and Modules, with about 47% market shares. Asia-Pacific has the largest global export quantity and manufacturers in Solar Cells and Modules market, nearly 62%, while Europe is the second sales volume market for Solar Cells and Modules at around 20% in 2019. Si-wafer based PV technology accounted for about 93% of the total sales in 2019. The share of mono-crystalline technology is now about 64% of total sales. Solar cells and modules can be divided into monocrystalline silicon modules, polycrystalline silicon modules, CdTe modules, CIGS modules, and amorphous silicon modules. It can be applied to photovoltaic power stations, commercial advertisements and residential buildings.

This report is a detailed and comprehensive analysis for global Solar Cells and Modules 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 Solar Cells and Modules market size and forecasts, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/W), 2020-2031

Global Solar Cells and Modules market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/W), 2020-2031

Global Solar Cells and Modules market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/W), 2020-2031

Global Solar Cells and Modules market shares of main players, shipments in revenue (\$ Million), sales quantity (MW), and ASP (US\$/W), 2020-2025

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 Solar Cells and Modules

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 Solar Cells and Modules 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 JinkoSolar, LONGi, JA Solar, First Solar, Canadian Solar, Trina Solar, Hanwha Solutions, Risen Energy, Seraphim,

SunPower, etc.

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

Market Segmentation

Solar Cells and Modules market is split by Type and by Application. For the period 2020-2031, 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

Mono-Si Modules

Multi-Si Modules

CdTe Modules

CIGS Modules

A-Si Modules

Others

Market segment by Application

PV Power Station

Commercial

Residential

Others

Major players covered

JinkoSolar

LONGi

JA Solar

First Solar

Canadian Solar

Trina Solar

Hanwha Solutions

Risen Energy

Seraphim

SunPower

Chint Electrics

Solargiga

Shunfeng

LG Business Solutions

Jinergy

GCL System

EGing PV

Jolywood

Talesun Solar

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 Solar Cells and Modules product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Solar Cells and Modules, with price, sales quantity, revenue, and global market share of Solar Cells and Modules from 2020 to 2025.

Chapter 3, the Solar Cells and Modules competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Solar Cells and Modules breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Solar Cells and Modules market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Solar Cells and Modules.

Chapter 14 and 15, to describe Solar Cells and Modules sales channel, distributors, customers, research findings and conclusion.

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