

Global CdTe Photovoltaic Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global CdTe Photovoltaic market size was valued at US\$ 5464 million in 2025 and is forecast to a readjusted size of US\$ 7766 million by 2032 with a CAGR of 6.1% during review period.

CdTe Photovoltaic is a photovoltaic product that uses cadmium telluride (CdTe) or cadmium telluride selenide (CdSeTe) thin films as the core light-absorbing layer and glass as the main substrate and encapsulation carrier. Its cell structure typically includes conductive glass, a transparent conductive layer, a semiconductor functional layer, a back contact layer, and electrodes. These are formed through thin film deposition, material processing, and laser scribing to create a series cell structure, which is then encapsulated, edge-sealed, and electrically connected to create modules or building-integrated photovoltaic (BIPV) glass. CdTe material has strong light absorption capabilities, enabling photoelectric conversion with a relatively thin semiconductor layer, making it a major commercial thin-film photovoltaic technology. Modern CdTe cells often incorporate CdSeTe material to improve spectral absorption and device performance.

CdTe photovoltaics have developed into two main product forms: standard modules and building-integrated photovoltaic (BIPV) products. Standard CdTe modules are characterized by standard sizes, opacity, and large-scale manufacturing, primarily targeting ground-mounted power plants and photovoltaic systems that do not serve as building envelopes. CdTe photovoltaic glass serves both as a power generation and building component, primarily used in curtain walls, facades, roofs, skylights, canopies, shading, balustrades, and transportation infrastructure.

Building-integrated photovoltaics (BIPV) products must possess both photovoltaic and building product attributes. After BIPV components are removed, the building must be replaced with traditional building components with the same function. Photovoltaic products installed only on existing roofs or wall surfaces and not replacing building materials are considered building-integrated photovoltaics (BAPV) and not BIPV. IEC 63092-1 covers the requirements for BIPV components used as building products, while IEC 63092-2 covers BIPV requirements at the installation structure and system levels.

CdTellin photovoltaic glass combines the attributes of thin-film photovoltaic manufacturing and architectural glass processing. Manufacturing capabilities typically cover conductive glass processing, semiconductor deposition, material activation, back contact, laser scribing, encapsulation, edge sealing, testing, and electrical connections; architectural products also involve processing steps such as lamination, insulated glass, coloring, patterning, irregular shapes, and structural connections. Industry competitiveness is primarily reflected in large-scale thin-film manufacturing capabilities, power per unit area, product reliability, architectural customization capabilities, regional certifications, engineering delivery capabilities, and accumulated customer projects.

Compared to standard photovoltaic modules, the transparency, color, pattern, glass construction, and non-power-generating areas of CdTe BIPV products directly affect the power per unit area. Semi-transparent and colored products typically have lower W/m², but higher product value per unit area and building system value.

This report is a detailed and comprehensive analysis for global CdTe Photovoltaic 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 CdTe Photovoltaic market size and forecasts, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/KW), 2021-2032

Global CdTe Photovoltaic market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (MW), and average selling prices

(US\$/KW), 2021-2032

Global CdTe Photovoltaic market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/KW), 2021-2032

Global CdTe Photovoltaic market shares of main players, shipments in revenue (\$ Million), sales quantity (MW), and ASP (US\$/KW), 2021-2026

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 CdTe Photovoltaic

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 CdTe Photovoltaic 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 First Solar, Kaisheng, Advanced Solar Power, Kaifeng Chenya, Mingyang Thin Film Technology, SEG Longyan, ANTEC Solar, Zoom Solar, Zhongshan Ruike, etc.

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

Market Segmentation

CdTe Photovoltaic market is split by Type and by Application. For the period 2021-2032, 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

Standard Opaque CdTe Modules

Opaque BIPV Photovoltaic Glass

Semi-transparent Photovoltaic Glass

Colored/Printed/Decorative Type

Custom Sizes/Irregular Shapes

Laminated Safety Glass/IGU

Other

Market segment by Efficiency

Conversion Efficiency 17%

Conversion Efficiency 18%

Conversion Efficiency 19%

Market segment by Users

Centralized PV Power Plants

Distributed and BIPV

Market segment by Application

Large-scale Ground-mounted Power Plants

Commercial and Industrial Rooftops/BAPV

BIPV Facades/Curtain Walls

BIPV Roofs/Skylights/Canopies

BIPV Lighting/Semi-transparent Enclosures

Infrastructure/Transportation/Off-grid/Other

Major players covered

First Solar

Kaisheng

Advanced Solar Power

Kaifeng Chenya

Mingyang Thin Film Technology

SEG Longyan

ANTEC Solar

Zoom Solar

Zhongshan Ruike

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 CdTe Photovoltaic product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of CdTe Photovoltaic, with price, sales quantity, revenue, and global market share of CdTe Photovoltaic from 2021 to 2026.

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

Chapter 4, the CdTe Photovoltaic breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and CdTe Photovoltaic market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 CdTe Photovoltaic.

Chapter 14 and 15, to describe CdTe Photovoltaic sales channel, distributors, customers, research findings and conclusion.

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