

Global CIGS Thin Film Solar Cell Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global CIGS Thin Film Solar Cell market size is expected to reach \$ 1034 million by 2032, rising at a market growth of 3.0% CAGR during the forecast period (2026-2032).

In 2025, global CIGS Thin Film Solar Cell production reached approximately 1018.6 mw, the average price is 0.8 usd/w. CIGS Thin Film Solar Cell refers to a type of photovoltaic cell that utilizes a thin film of copper indium gallium selenide (CIGS) semiconductor material to convert sunlight into electricity. CIGS is a compound that has excellent light absorption properties, allowing for efficient energy conversion. The thin film solar cells are created by depositing thin layers of CIGS material onto a substrate such as glass or flexible material. CIGS Thin Film Solar Cells offer advantages like high efficiency, potential for flexible and lightweight designs, and lower manufacturing costs compared to traditional silicon-based solar cells.

Market Concentration and Major Players:

Internationally, the CIGS thin-film solar cell market is highly concentrated, mainly in developed countries such as Europe and the United States. Large manufacturers include Avancis and Hanergy. Domestically, CIGS thin-film solar cells still have significant room for development.

Manufacturing Process and Market Trends:

CIGS thin-film solar cells typically use glass or flexible metal foil as a substrate. First, a molybdenum back electrode is sputtered. Then, a copper indium gallium selenide (CIGS) absorber layer is prepared using co-evaporation or a pre-sputtered selenization method. Subsequently, a cadmium sulfide or cadmium-free buffer layer is deposited via

chemical bath deposition. Next, intrinsic zinc oxide and aluminum-doped zinc oxide window layers are deposited sequentially. Finally, a front electrode is fabricated, an antireflection coating is deposited, and the module is laminated and encapsulated.

In terms of the market, CIGS has not entered ground power plants on a large scale due to the cost of crystalline silicon. Instead, it has focused on differentiated fields such as building-integrated photovoltaics and mobile energy. With its advantages such as good low-light performance, dark appearance, flexibility and lightweight, it is used in curtain walls and automotive and aerospace equipment. After industry consolidation, it is dominated by a few leading companies. In the future, the focus will be on promoting cadmium-free processes to improve large-area uniformity, developing roll-to-roll flexible production lines, and exploring perovskite stacking to improve efficiency. Overall, it is positioned in a high-value-added niche market.

This report studies the global CIGS Thin Film Solar Cell production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global CIGS Thin Film Solar Cell total production and demand, 2021-2032, (MW)

Global CIGS Thin Film Solar Cell total production value, 2021-2032, (USD Million)

Global CIGS Thin Film Solar Cell production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (MW), (based on production site)

Global CIGS Thin Film Solar Cell consumption by region & country, CAGR, 2021-2032 & (MW)

U.S. VS China: CIGS Thin Film Solar Cell domestic production, consumption, key domestic manufacturers and share

Global CIGS Thin Film Solar Cell production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (MW)

Global CIGS Thin Film Solar Cell production by Type, production, value, CAGR, 2021-2032, (USD Million) & (MW)

Global CIGS Thin Film Solar Cell production by Application, production, value, CAGR, 2021-2032, (USD Million) & (MW)

This report profiles key players in the global CIGS Thin Film Solar Cell 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 Avancis (German), Hanergy (China), Global Solar (USA), Flisom (Switzerland), Idemitsu (Japan), Midsummer (Sweden), Ascent Solar (USA), Sunflare (USA), Flisom (Switzerland), Sunplugged (Austria), 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 CIGS Thin Film Solar Cell market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (MW) and average price (USD/W) 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 CIGS Thin Film Solar Cell Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global CIGS Thin Film Solar Cell Market, Segmentation by Type:

Copper Indium Gallium Selenide (CIGS) Solar Cells

Copper Indium Selenide (CIS) Solar Cell

Global CIGS Thin Film Solar Cell Market, Segmentation by Substrate:

Rigid Glass Substrate

Flexible Metal Foil

Flexible Polyimide (PI) Substrate

Global CIGS Thin Film Solar Cell Market, Segmentation by Application:

Residential

Commercial

Industrial

Companies Profiled:

Avancis (German)

Hanergy (China)

Global Solar (USA)

Flisom (Switzerland)

Idemitsu (Japan)

Midsummer (Sweden)

Ascent Solar (USA)

Sunflare (USA)

Flisom (Switzerland)

Sunplugged (Austria)

Solar Cloth (France)

PXP?Japan)

Key Questions Answered:

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

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