

Global Photovoltaic Module Metal Frame Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Photovoltaic Module Metal Frame market size is expected to reach \$ 9093 million by 2032, rising at a market growth of 3.2% CAGR during the forecast period (2026-2032).

Photovoltaic Module Metal Frame refers to a structural metal frame installed around the edges of a solar photovoltaic module. It is mainly used to protect the glass edge and laminate, improve module mechanical strength, enhance sealing performance, facilitate transportation, support mounting, and improve the module's resistance to wind load, snow load, impact and corrosion. The most common material is anodized aluminum alloy because of its low weight, corrosion resistance, high processability and recyclability. In this report, the market mainly includes aluminum alloy PV module frames, anodized aluminum frames, black aluminum frames, lightweight PV module frames, bifacial module frames, high-load module frames, custom module frames and limited steel / stainless steel PV module frames for special applications. The 2025 benchmark ASP is US\$3,000 / ton, sales volume is 2,362.20 k tons, and average gross margin is 19%. The upstream industry chain includes aluminum ingots, recycled aluminum, aluminum billets, magnesium and silicon alloying elements, extrusion dies, anodizing chemicals, surface treatment agents, powder coating materials, packaging materials and testing equipment. The midstream includes aluminum extrusion, profile cutting, punching, bending, corner key processing, surface anodizing, electrophoresis or coating, precision machining, dimensional inspection, mechanical strength testing, corrosion testing, packaging and delivery to module factories. The downstream includes PV module manufacturers, solar cell and module OEMs, building-integrated PV suppliers, distributed PV module suppliers, utility-scale module suppliers, EPC companies and solar equipment distributors.

Photovoltaic module metal frames are a mature but essential sub-segment of the PV supply chain. Demand is closely linked to global solar module shipments, especially large-format modules, bifacial modules, distributed rooftop PV and utility-scale PV projects. Aluminum alloy remains the dominant material because it balances weight, strength, corrosion resistance, processing efficiency and recyclability. However, the market faces strong price pressure because module manufacturers are highly cost-sensitive and frame suppliers are exposed to aluminum price fluctuations, processing fee competition and PV industry overcapacity cycles. The growth of larger modules and higher mechanical load requirements supports demand for precision profiles and stronger frame structures, while lightweight frame designs and recycled aluminum are becoming more important for cost and carbon-footprint reduction. Future competition will focus on thinner but stronger frames, high-precision extrusion, corrosion-resistant anodizing, black frame aesthetics, low-carbon recycled aluminum, automated processing, overseas capacity layout, supply-chain proximity to module factories and compatibility with bifacial and large-size modules.

This report studies the global Photovoltaic Module Metal Frame production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Photovoltaic Module Metal Frame total production and demand, 2021-2032, (Kilotons)

Global Photovoltaic Module Metal Frame total production value, 2021-2032, (USD Million)

Global Photovoltaic Module Metal Frame production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Photovoltaic Module Metal Frame consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Photovoltaic Module Metal Frame domestic production, consumption, key domestic manufacturers and share

Global Photovoltaic Module Metal Frame production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Photovoltaic Module Metal Frame production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Photovoltaic Module Metal Frame production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Photovoltaic Module Metal Frame 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 Yonz Technology, Anhui Xinbo Solar Material, Jiangyin Akcome Metal Technology, CITIC Bohai Aluminum, Yingkou Changtai Aluminum Material, Jiangyin YueDa Aluminum, Xiamen Kseng Metal Tech, Targray, Hydro Extrusions, Constellium, 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 Photovoltaic Module Metal Frame market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/Ton) 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 Photovoltaic Module Metal Frame Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Photovoltaic Module Metal Frame Market, Segmentation by Type:

6000 Series Alloy (6061, 6063)

7000 Series Alloy

Global Photovoltaic Module Metal Frame Market, Segmentation by Surface Treatment:

Anodized Frames

Powder-Coated Frames

Electrophoretic Coated Frames

Global Photovoltaic Module Metal Frame Market, Segmentation by Module Type:

Monofacial Module Frame

Bifacial Module Frame

Global Photovoltaic Module Metal Frame Market, Segmentation by Application:

Centralized Photovoltaic Power Station

Distributed Photovoltaic Power Station

Companies Profiled:

Yonz Technology

Anhui Xinbo Solar Material

Jiangyin Akcome Metal Technology

CITIC Bohai Aluminum

Yingkou Changtai Aluminum Material

Jiangyin YueDa Aluminum

Xiamen Kseng Metal Tech

Targray

Hydro Extrusions

Constellium

Bonnell Aluminum

Kaiser Aluminum

Hindalco Industries

Press Metal Aluminium

Alom Group

Guangdong Xingfa Aluminium

Guangdong Fenglu Aluminium

Guangdong Haomei New Materials

Guangdong Weiye Aluminium

Jiangsu Asia-Pacific Light Alloy Technology

Zhejiang Dongliang New Material

Key Questions Answered:

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

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