

Global Photovoltaic Module Metal Frame 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 Photovoltaic Module Metal Frame market size was valued at US\$ 7292 million in 2025 and is forecast to a readjusted size of US\$ 9093 million by 2032 with a CAGR of 3.2% during review period.

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 is a detailed and comprehensive analysis for global Photovoltaic Module Metal Frame 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 Photovoltaic Module Metal Frame market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Photovoltaic Module Metal Frame market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Photovoltaic Module Metal Frame market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Photovoltaic Module Metal Frame market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), and ASP (US\$/Ton), 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 Photovoltaic Module Metal Frame

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 Photovoltaic Module Metal Frame 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 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.

Market Segmentation

Photovoltaic Module Metal Frame 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

6000 Series Alloy (6061, 6063)

7000 Series Alloy

Market segment by Surface Treatment

Anodized Frames

Powder-Coated Frames

Electrophoretic Coated Frames

Market segment by Module Type

Monofacial Module Frame

Bifacial Module Frame

Market segment by Application

Centralized Photovoltaic Power Station

Distributed Photovoltaic Power Station

Major players covered

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

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 Photovoltaic Module Metal Frame product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Photovoltaic Module Metal Frame 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 Photovoltaic Module Metal Frame 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 Photovoltaic Module Metal Frame.

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

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