

Global Photovoltaic Composite 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 Composite Frame market size was valued at US\$ 514 million in 2025 and is forecast to a readjusted size of US\$ 1007 million by 2032 with a CAGR of 10.0% during review period.

A photovoltaic composite frame is a frame structure material mainly used to fix and seal photovoltaic modules. It is typically manufactured using composite materials such as glass fiber-reinforced polyurethane (GF-PU) through pultrusion processes. Compared with traditional aluminum alloy frames, composite frames offer four major advantages: lower material cost, excellent weather resistance, insulation properties, lightweight, and aesthetic appeal. The global average selling price for photovoltaic composite frames is approximately US\$65 per unit. The average sales volume in the base year is estimated at 7,69k units. The industry average gross margin is approximately 35%, with typical ranges between 25% and 45%, reflecting the emerging nature of the market and the ongoing transition from aluminum to composite materials. The upstream segment includes manufacturers of glass fibers, polyurethane resins, and other raw materials. The midstream segment comprises composite frame manufacturers that produce, process, and coat finished frame products through pultrusion and other forming processes. The downstream segment encompasses photovoltaic module manufacturers, solar project developers, and EPC contractors that utilize these frames for residential, commercial, and ground-mounted solar installations.

The photovoltaic composite frame market is undergoing rapid transformation driven by the convergence of cost reduction pressures, sustainability imperatives, and expanding application scenarios. The industry is witnessing a fundamental shift from traditional

aluminum frames to composite alternatives, as composite frames offer credible cost advantages?currently approximately 55?65 yuan per set compared to 70 yuan for aluminum frames, representing a cost reduction of about 29%. The penetration rate of composite frames is accelerating, with conservative estimates projecting 19% penetration in 2025 (132GW demand) and optimistic scenarios reaching 39% (264GW demand). The expansion of photovoltaic installations into extreme environments?offshore, desert, and high-salinity coastal regions?is creating new demand for composite frames, as aluminum alloys suffer from corrosion in high-salt fog environments while composites offer excellent corrosion resistance. The integration of sustainability considerations is reshaping procurement decisions, with composite frames delivering significantly lower carbon footprints?up to 85% reduction compared to aluminum?and supporting the circular economy through emerging recycling technologies. Regulatory frameworks, including EU Carbon Border Adjustment Mechanism (CBAM) and zero-carbon park initiatives, are accelerating adoption. The industry is transitioning from price-driven competition to value-based competition, with leading players focusing on cost control, quality standards, and delivery capabilities. As the global push for decarbonization intensifies and photovoltaic installations expand into challenging environments, the composite frame market is positioned for sustained high-growth across both developed and emerging markets.

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

Global Photovoltaic Composite Frame market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Untis), and average selling prices (US\$/Unit), 2021-2032

Global Photovoltaic Composite Frame market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Untis), and average

selling prices (US\$/Unit), 2021-2032

Global Photovoltaic Composite Frame market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 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 Composite 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 Composite 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 Covestro AG, Zhejiang Deyilong Technology, Zhenshi Holding Group, Jiangsu Worldlight New Material, Foremost Technology, Zhejiang Bofay Electric, BASF SE, LESSO Solar, Taporel Solar, Wanhua Chemical, etc.

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

Market Segmentation

Photovoltaic Composite 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

Open Cavity

Closed Cavity

Market segment by Material Type

Glass Fiber-Reinforced Polyurethane (GF-PU)

PET/GF Composites

Carbon Fiber Composites

Basalt Fiber Composites

Thermoplastic Composites (PP, PPS, Nylon)

Market segment by Carbon Footprint

Standard Composite Frames

Low-Carbon / Recyclable Composite Frames

Market segment by Application

Centralized Photovoltaic Power Station

Distributed Photovoltaic Power Station

Major players covered

Covestro AG

Zhejiang Deyilong Technology

Zhenshi Holding Group

Jiangsu Worldlight New Material

Foremost Technology

Zhejiang Bofay Electric

BASF SE

LESSO Solar

Taporel Solar

Wanhua Chemical

3M Company

DuPont de Nemours

Hanwha Q CELLS

JinkoSolar

LONGi Green Energy

Trina Solar

Zhuzhou Times New Material Technology

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 Composite Frame product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Photovoltaic Composite 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 Composite 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 Composite Frame.

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

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