

Global Solar Carport Frame Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Solar Carport Frame market size is expected to reach \$ 1081 million by 2032, rising at a market growth of 8.3% CAGR during the forecast period (2026-2032).

A solar carport frame is a structural framework designed to support photovoltaic (PV) panels while simultaneously providing shelter for vehicles. It serves a dual purpose: generating clean, renewable solar energy through the PV panels installed on its top, and offering a covered parking area that protects cars, motorcycles, or other vehicles from elements such as sunlight, rain, snow, and hail. Constructed from materials like steel, aluminum alloy, or concrete, these frames vary in design. Some feature single - column or multi - column structures for stability, while others come in different slopes such as single - slope, double - slope, flat - top, or curved - surface, depending on the specific requirements of solar energy capture, space utilization, and architectural aesthetics. Solar carport frames can be categorized as additional - type, where PV panels are added to an existing carport, or constructed - type, where the panels are integral to the carport's structure. Moreover, modern solar carport frames may also incorporate intelligent features, including electric vehicle charging stations and automated monitoring systems, making them not only a sustainable energy solution but also a convenient and forward - thinking addition to parking infrastructure.

In 2025, global Solar Carport Frame production reached approximately 35,588 units, with an average global market price of around US\$ 17,000 per unit.

The upstream supply chain involves raw material providers of structural metals (aluminum alloy, carbon steel, stainless steel), surface treatment materials, and fastener manufacturers, alongside component suppliers for connection fittings and structural accessories. Midstream players focus on structural design, material processing,

prefabrication, and assembly of frame systems, conducting engineering calculations to ensure load-bearing capacity and weather resistance. Downstream end users include commercial parking lot operators, corporate campuses, residential communities, educational institutions, and public transportation hubs, with supporting installation services, maintenance, and structural reinforcement solutions throughout the product lifecycle.

Material costs dominate the total cost at 60%-75%, primarily including aluminum alloy/steel raw materials (40%-55%) and surface treatment (10%-15%) for corrosion resistance. Processing and manufacturing costs account for 15%-20%, covering cutting, bending, welding, and prefabrication expenses. Engineering design, structural calculation, and quality inspection costs occupy 5%-10%, while logistics, packaging, and after-sales service account for the remaining 5%-10%. The price volatility of base metals and specialized coating materials directly impacts the overall cost of solar carport frames.

This report studies the global Solar Carport Frame production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Solar Carport Frame total production and demand, 2021-2032, (Units)

Global Solar Carport Frame total production value, 2021-2032, (USD Million)

Global Solar Carport Frame production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Solar Carport Frame consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Solar Carport Frame domestic production, consumption, key domestic manufacturers and share

Global Solar Carport Frame production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Solar Carport Frame production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Solar Carport Frame production by Application, production, value, CAGR,

2021-2032, (USD Million) & (Units)

This report profiles key players in the global Solar Carport 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 Powers Solar Frames, Topregal, Carport Structures, NewFrame, Absolute Steel, Schletter, SkyJapan, HIMZEN, Universe solar(USOLAR), Sunforson, 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 Solar Carport Frame market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) 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 Solar Carport Frame Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Solar Carport Frame Market, Segmentation by Type:

Aluminum Alloy

Steel

Glass

Global Solar Carport Frame Market, Segmentation by Structural Design:

Single-Column Cantilever Frame

Double-Column Portal Frame

Multi-Column Truss Frame

Global Solar Carport Frame Market, Segmentation by Parking Bay Capacity:

Single-Bay Systems (1 Vehicle Space)

Double-Bay Systems (2 Vehicle Spaces)

Small Multi-Bay Systems (3-10 Vehicle Spaces)

Large Multi-Bay Systems (Above 10 Vehicle Spaces)

Global Solar Carport Frame Market, Segmentation by Application:

Commercial Buildings

Residential Buildings

Industrial Buildings

Public Infrastructure

Others

Companies Profiled:

Powers Solar Frames

Topregal

Carport Structures

NewFrame

Absolute Steel

Schletter

SkyJapan

HIMZEN

Universe solar(USOLAR)

Sunforson

Kseng

Chiko Solar Mounting System

MG Solar

Bristar

baja Carports

Kingfeels Energy Technology

Solar Foundations

HQ MOUNT

Wanhos Solar

Lumos Solar

Mitjavila

Quest Canopies

Key Questions Answered:

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

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