

# Global Photovoltaic Carport Support System Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Photovoltaic Carport Support System market size is expected to reach \$ 3925 million by 2032, rising at a market growth of 10.0% CAGR during the forecast period (2026-2032).

A photovoltaic (PV) carport support system is a structural support system that integrates solar photovoltaic modules and installs them on a carport. Through reasonable structural design and layout, it provides sun protection for parked vehicles while simultaneously generating electricity. It combines space utilization, energy production, and architectural functions, and is widely used in public parking lots, residential communities, commercial centers, industrial parks, power plants, and highway service areas. The main body of the PV carport support system is mostly made of high-strength aluminum alloy (such as anodized aluminum) or hot-dip galvanized steel to ensure high corrosion resistance and long service life in harsh environments. It achieves an organic combination of 'PV + parking,' not only charging electric vehicles but also allowing surplus electricity to be connected to the grid.

Upstream The upstream sector primarily includes suppliers of raw materials and key components, such as steel, aluminum profiles, bolts, nuts, anti-corrosion coating materials, and photovoltaic modules, providing the structural strength and corrosion resistance foundation for the support system. The midstream consists of photovoltaic carport support system manufacturers, who process raw materials and components into standardized or customized support systems through structural design, profile processing, assembly, and anti-corrosion treatment, and provide installation guidance and after-sales service. The downstream sector comprises end users such as parking lots, residential communities, commercial centers, industrial parks, and highway service areas.

In 2025, global sales of photovoltaic carport support systems reached 98,000 units, with a production capacity of approximately 135,000 units, an average selling price of US\$20,200 per unit, and an average gross profit margin of 20%-25%.

The supply of photovoltaic (PV) carport support systems primarily relies on the traditional PV support manufacturing industry chain and the parking infrastructure sector. Global production is concentrated in China, Europe, and North America. Chinese companies have a clear advantage in terms of production capacity, manufacturing costs, and export capabilities, leading to fierce competition among numerous small and medium-sized support manufacturers. European and American suppliers, on the other hand, focus more on engineering design standards, structural safety, and integrated project solutions.

Demand for PV carport support systems mainly comes from commercial parking lots, business parks, residential communities, public facilities (such as hospitals and schools), and highway service areas. The dual function of PV power generation and parking shading makes it highly attractive to those seeking low electricity costs. With the advancement of new energy subsidy policies and green building standards, businesses and public sectors are increasingly adopting PV carports to reduce energy costs and carbon emissions. Furthermore, the widespread adoption of new energy vehicles and the construction of charging infrastructure indirectly drive demand for carport support systems, becoming a significant source of market growth in the coming years.

Product evolution mainly focuses on material optimization, structural design, and ease of installation. Early products mostly used ordinary galvanized steel or aluminum alloy profiles, with simple structures. As demand has increased, high-strength lightweight materials, modular designs, and adjustable tilt angle solutions have emerged to improve load-bearing capacity and adapt to various geographical and climatic conditions. The technological roadmap is also developing towards standardized modules + quick-connect fittings and compatible tracking systems, improving the power generation efficiency and installation efficiency of photovoltaic modules.

This report studies the global Photovoltaic Carport Support System production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Photovoltaic Carport Support System total production and demand, 2021-2032, (Units)

Global Photovoltaic Carport Support System total production value, 2021-2032, (USD Million)

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

Global Photovoltaic Carport Support System consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Photovoltaic Carport Support System domestic production, consumption, key domestic manufacturers and share

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

Global Photovoltaic Carport Support System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Photovoltaic Carport Support System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Photovoltaic Carport Support System 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 Schletter Group, Quest Renewables, SnapNrack, APA Solar Racking, K2 Systems, Convert Italia, ArcelorMittal, T.Werk, Orion Carports, Clenergy, 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 Carport Support System 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 Photovoltaic Carport Support System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Photovoltaic Carport Support System Market, Segmentation by Type:

Single-Column Type

Double-Column Type

Multi-Column Type

#### Global Photovoltaic Carport Support System Market, Segmentation by Functionality:

Integrated Photovoltaic, Energy Storage, And Charging System

Traditional

#### Global Photovoltaic Carport Support System Market, Segmentation by Column Span:

3-5m

5-8m

?8m

### Global Photovoltaic Carport Support System Market, Segmentation by Application:

Public Facilities

Park Area

Others

### Companies Profiled:

Schletter Group

Quest Renewables

SnapNrack

APA Solar Racking

K2 Systems

Convert Italia

ArcelorMittal

T.Werk

Orion Carports

Clenergy

Grace Solar

Arctech Solar

Antai Solar

Versolsolar

Kern Solar Structures

Unirac

Nichiei Intec

Hanwha Q CELLS

Pvpowerway

#### Key Questions Answered:

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

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