

Global Solar Carport Frame Market Growth 2026-2032

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Abstracts

The global Solar Carport Frame market size is predicted to grow from US\$ 592 million in 2025 to US\$ 1058 million in 2032; it is expected to grow at a CAGR of 8.8% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the "Solar Carport Frame Industry Forecast" looks at past sales and reviews total world Solar Carport Frame sales in 2025, providing a comprehensive analysis by region and market sector of projected Solar Carport Frame sales for 2026 through 2032. With Solar Carport Frame sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Solar Carport Frame industry.

This Insight Report provides a comprehensive analysis of the global Solar Carport Frame landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Solar Carport Frame portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Solar Carport Frame market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Solar Carport Frame and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Solar Carport Frame.

This report presents a comprehensive overview, market shares, and growth opportunities of Solar Carport Frame market by product type, application, key

manufacturers and key regions and countries.

Segmentation by Type:

Aluminum Alloy

Steel

Glass

Segmentation by Structural Design:

Single-Column Cantilever Frame

Double-Column Portal Frame

Multi-Column Truss Frame

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)

Segmentation by Application:

Commercial Buildings

Residential Buildings

Industrial Buildings

Public Infrastructure

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Solar Carport Frame market?

What factors are driving Solar Carport Frame market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Solar Carport Frame market opportunities vary by end market size?

How does Solar Carport Frame break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Solar Carport Frame Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Solar Carport Frame by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Solar Carport Frame by Country/Region, 2021, 2025 & 2032
- 2.2 Solar Carport Frame Segment by Type
 - 2.2.1 Aluminum Alloy
 - 2.2.2 Steel
 - 2.2.3 Glass
 - 2.2.4 Solar Carport Frame Sales by Type
 - 2.2.4.1 Global Solar Carport Frame Sales Market Share by Type (2021-2026)
 - 2.2.4.2 Global Solar Carport Frame Revenue and Market Share by Type (2021-2026)
 - 2.2.4.3 Global Solar Carport Frame Sale Price by Type (2021-2026)
- 2.3 Solar Carport Frame Segment by Structural Design
 - 2.3.1 Single-Column Cantilever Frame
 - 2.3.2 Double-Column Portal Frame
 - 2.3.3 Multi-Column Truss Frame
 - 2.3.4 Solar Carport Frame Sales by Structural Design
 - 2.3.4.1 Global Solar Carport Frame Sales Market Share by Structural Design (2021-2026)
 - 2.3.4.2 Global Solar Carport Frame Revenue and Market Share by Structural Design (2021-2026)
 - 2.3.4.3 Global Solar Carport Frame Sale Price by Structural Design (2021-2026)

2.4 Solar Carport Frame Segment by Parking Bay Capacity

2.4.1 Single-Bay Systems (1 Vehicle Space)

2.4.2 Double-Bay Systems (2 Vehicle Spaces)

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

2.4.4 Large Multi-Bay Systems (Above 10 Vehicle Spaces)

2.4.5 Solar Carport Frame Sales by Parking Bay Capacity

2.4.5.1 Global Solar Carport Frame Sales Market Share by Parking Bay Capacity (2021-2026)

2.4.5.2 Global Solar Carport Frame Revenue and Market Share by Parking Bay Capacity (2021-2026)

2.4.5.3 Global Solar Carport Frame Sale Price by Parking Bay Capacity (2021-2026)

2.5 Solar Carport Frame Segment by Application

2.5.1 Commercial Buildings

2.5.2 Residential Buildings

2.5.3 Industrial Buildings

2.5.4 Public Infrastructure

2.5.5 Others

2.5.6 Solar Carport Frame Sales by Application

2.5.6.1 Global Solar Carport Frame Sale Market Share by Application (2021-2026)

2.5.6.2 Global Solar Carport Frame Revenue and Market Share by Application (2021-2026)

2.5.6.3 Global Solar Carport Frame Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Solar Carport Frame Breakdown Data by Company

3.1.1 Global Solar Carport Frame Annual Sales by Company (2021-2026)

3.1.2 Global Solar Carport Frame Sales Market Share by Company (2021-2026)

3.2 Global Solar Carport Frame Annual Revenue by Company (2021-2026)

3.2.1 Global Solar Carport Frame Revenue by Company (2021-2026)

3.2.2 Global Solar Carport Frame Revenue Market Share by Company (2021-2026)

3.3 Global Solar Carport Frame Sale Price by Company

3.4 Key Manufacturers Solar Carport Frame Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Solar Carport Frame Product Location Distribution

3.4.2 Players Solar Carport Frame Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR SOLAR CARPORT FRAME BY GEOGRAPHIC REGION

4.1 World Historic Solar Carport Frame Market Size by Geographic Region (2021-2026)

4.1.1 Global Solar Carport Frame Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Solar Carport Frame Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Solar Carport Frame Market Size by Country/Region (2021-2026)

4.2.1 Global Solar Carport Frame Annual Sales by Country/Region (2021-2026)

4.2.2 Global Solar Carport Frame Annual Revenue by Country/Region (2021-2026)

4.3 Americas Solar Carport Frame Sales Growth

4.4 APAC Solar Carport Frame Sales Growth

4.5 Europe Solar Carport Frame Sales Growth

4.6 Middle East & Africa Solar Carport Frame Sales Growth

5 AMERICAS

5.1 Americas Solar Carport Frame Sales by Country

5.1.1 Americas Solar Carport Frame Sales by Country (2021-2026)

5.1.2 Americas Solar Carport Frame Revenue by Country (2021-2026)

5.2 Americas Solar Carport Frame Sales by Type (2021-2026)

5.3 Americas Solar Carport Frame Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Solar Carport Frame Sales by Region

6.1.1 APAC Solar Carport Frame Sales by Region (2021-2026)

6.1.2 APAC Solar Carport Frame Revenue by Region (2021-2026)

6.2 APAC Solar Carport Frame Sales by Type (2021-2026)

6.3 APAC Solar Carport Frame Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Solar Carport Frame by Country

7.1.1 Europe Solar Carport Frame Sales by Country (2021-2026)

7.1.2 Europe Solar Carport Frame Revenue by Country (2021-2026)

7.2 Europe Solar Carport Frame Sales by Type (2021-2026)

7.3 Europe Solar Carport Frame Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Solar Carport Frame by Country

8.1.1 Middle East & Africa Solar Carport Frame Sales by Country (2021-2026)

8.1.2 Middle East & Africa Solar Carport Frame Revenue by Country (2021-2026)

8.2 Middle East & Africa Solar Carport Frame Sales by Type (2021-2026)

8.3 Middle East & Africa Solar Carport Frame Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of Solar Carport Frame
- 10.3 Manufacturing Process Analysis of Solar Carport Frame
- 10.4 Industry Chain Structure of Solar Carport Frame

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 Solar Carport Frame Distributors
- 11.3 Solar Carport Frame Customer

12 WORLD FORECAST REVIEW FOR SOLAR CARPORT FRAME BY GEOGRAPHIC REGION

- 12.1 Global Solar Carport Frame Market Size Forecast by Region
 - 12.1.1 Global Solar Carport Frame Forecast by Region (2027-2032)
 - 12.1.2 Global Solar Carport Frame Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Solar Carport Frame Forecast by Type (2027-2032)
- 12.7 Global Solar Carport Frame Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

- 13.1 Powers Solar Frames
 - 13.1.1 Powers Solar Frames Company Information
 - 13.1.2 Powers Solar Frames Solar Carport Frame Product Portfolios and Specifications
 - 13.1.3 Powers Solar Frames Solar Carport Frame Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.1.4 Powers Solar Frames Main Business Overview
 - 13.1.5 Powers Solar Frames Latest Developments
- 13.2 Topregal
 - 13.2.1 Topregal Company Information
 - 13.2.2 Topregal Solar Carport Frame Product Portfolios and Specifications

13.2.3 Topregal Solar Carport Frame Sales, Revenue, Price and Gross Margin
(2021-2026)

13.2.4 Topregal Main Business Overview

13.2.5 Topregal Latest Developments

13.3 Carport Structures

13.3.1 Carport Structures Company Information

13.3.2 Carport Structures Solar Carport Frame Product Portfolios and Specifications

13.3.3 Carport Structures Solar Carport Frame Sales, Revenue, Price and Gross
Margin (2021-2026)

13.3.4 Carport Structures Main Business Overview

13.3.5 Carport Structures Latest Developments

13.4 NewFrame

13.4.1 NewFrame Company Information

13.4.2 NewFrame Solar Carport Frame Product Portfolios and Specifications

13.4.3 NewFrame Solar Carport Frame Sales, Revenue, Price and Gross Margin
(2021-2026)

13.4.4 NewFrame Main Business Overview

13.4.5 NewFrame Latest Developments

13.5 Absolute Steel

13.5.1 Absolute Steel Company Information

13.5.2 Absolute Steel Solar Carport Frame Product Portfolios and Specifications

13.5.3 Absolute Steel Solar Carport Frame Sales, Revenue, Price and Gross Margin
(2021-2026)

13.5.4 Absolute Steel Main Business Overview

13.5.5 Absolute Steel Latest Developments

13.6 Schletter

13.6.1 Schletter Company Information

13.6.2 Schletter Solar Carport Frame Product Portfolios and Specifications

13.6.3 Schletter Solar Carport Frame Sales, Revenue, Price and Gross Margin
(2021-2026)

13.6.4 Schletter Main Business Overview

13.6.5 Schletter Latest Developments

13.7 SkyJapan

13.7.1 SkyJapan Company Information

13.7.2 SkyJapan Solar Carport Frame Product Portfolios and Specifications

13.7.3 SkyJapan Solar Carport Frame Sales, Revenue, Price and Gross Margin
(2021-2026)

13.7.4 SkyJapan Main Business Overview

13.7.5 SkyJapan Latest Developments

13.8 HIMZEN

13.8.1 HIMZEN Company Information

13.8.2 HIMZEN Solar Carport Frame Product Portfolios and Specifications

13.8.3 HIMZEN Solar Carport Frame Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 HIMZEN Main Business Overview

13.8.5 HIMZEN Latest Developments

13.9 Universe solar(USOLAR)

13.9.1 Universe solar(USOLAR) Company Information

13.9.2 Universe solar(USOLAR) Solar Carport Frame Product Portfolios and Specifications

13.9.3 Universe solar(USOLAR) Solar Carport Frame Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Universe solar(USOLAR) Main Business Overview

13.9.5 Universe solar(USOLAR) Latest Developments

13.10 Sunforson

13.10.1 Sunforson Company Information

13.10.2 Sunforson Solar Carport Frame Product Portfolios and Specifications

13.10.3 Sunforson Solar Carport Frame Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Sunforson Main Business Overview

13.10.5 Sunforson Latest Developments

13.11 Kseng

13.11.1 Kseng Company Information

13.11.2 Kseng Solar Carport Frame Product Portfolios and Specifications

13.11.3 Kseng Solar Carport Frame Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Kseng Main Business Overview

13.11.5 Kseng Latest Developments

13.12 Chiko Solar Mounting System

13.12.1 Chiko Solar Mounting System Company Information

13.12.2 Chiko Solar Mounting System Solar Carport Frame Product Portfolios and Specifications

13.12.3 Chiko Solar Mounting System Solar Carport Frame Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Chiko Solar Mounting System Main Business Overview

13.12.5 Chiko Solar Mounting System Latest Developments

13.13 MG Solar

13.13.1 MG Solar Company Information

- 13.13.2 MG Solar Solar Carport Frame Product Portfolios and Specifications
- 13.13.3 MG Solar Solar Carport Frame Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.13.4 MG Solar Main Business Overview
- 13.13.5 MG Solar Latest Developments
- 13.14 Bristar
 - 13.14.1 Bristar Company Information
 - 13.14.2 Bristar Solar Carport Frame Product Portfolios and Specifications
 - 13.14.3 Bristar Solar Carport Frame Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.14.4 Bristar Main Business Overview
 - 13.14.5 Bristar Latest Developments
- 13.15 baja Carports
 - 13.15.1 baja Carports Company Information
 - 13.15.2 baja Carports Solar Carport Frame Product Portfolios and Specifications
 - 13.15.3 baja Carports Solar Carport Frame Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.15.4 baja Carports Main Business Overview
 - 13.15.5 baja Carports Latest Developments
- 13.16 Kingfeels Energy Technology
 - 13.16.1 Kingfeels Energy Technology Company Information
 - 13.16.2 Kingfeels Energy Technology Solar Carport Frame Product Portfolios and Specifications
 - 13.16.3 Kingfeels Energy Technology Solar Carport Frame Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.16.4 Kingfeels Energy Technology Main Business Overview
 - 13.16.5 Kingfeels Energy Technology Latest Developments
- 13.17 Solar Foundations
 - 13.17.1 Solar Foundations Company Information
 - 13.17.2 Solar Foundations Solar Carport Frame Product Portfolios and Specifications
 - 13.17.3 Solar Foundations Solar Carport Frame Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.17.4 Solar Foundations Main Business Overview
 - 13.17.5 Solar Foundations Latest Developments
- 13.18 HQ MOUNT
 - 13.18.1 HQ MOUNT Company Information
 - 13.18.2 HQ MOUNT Solar Carport Frame Product Portfolios and Specifications
 - 13.18.3 HQ MOUNT Solar Carport Frame Sales, Revenue, Price and Gross Margin (2021-2026)

13.18.4 HQ MOUNT Main Business Overview

13.18.5 HQ MOUNT Latest Developments

13.19 Wanhos Solar

13.19.1 Wanhos Solar Company Information

13.19.2 Wanhos Solar Solar Carport Frame Product Portfolios and Specifications

13.19.3 Wanhos Solar Solar Carport Frame Sales, Revenue, Price and Gross Margin
(2021-2026)

13.19.4 Wanhos Solar Main Business Overview

13.19.5 Wanhos Solar Latest Developments

13.20 Lumos Solar

13.20.1 Lumos Solar Company Information

13.20.2 Lumos Solar Solar Carport Frame Product Portfolios and Specifications

13.20.3 Lumos Solar Solar Carport Frame Sales, Revenue, Price and Gross Margin
(2021-2026)

13.20.4 Lumos Solar Main Business Overview

13.20.5 Lumos Solar Latest Developments

13.21 Mitjavila

13.21.1 Mitjavila Company Information

13.21.2 Mitjavila Solar Carport Frame Product Portfolios and Specifications

13.21.3 Mitjavila Solar Carport Frame Sales, Revenue, Price and Gross Margin
(2021-2026)

13.21.4 Mitjavila Main Business Overview

13.21.5 Mitjavila Latest Developments

13.22 Quest Canopies

13.22.1 Quest Canopies Company Information

13.22.2 Quest Canopies Solar Carport Frame Product Portfolios and Specifications

13.22.3 Quest Canopies Solar Carport Frame Sales, Revenue, Price and Gross
Margin (2021-2026)

13.22.4 Quest Canopies Main Business Overview

13.22.5 Quest Canopies Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

- Table 1. Solar Carport Frame Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Table 2. Solar Carport Frame Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)
- Table 3. Major Players of Aluminum Alloy
- Table 4. Major Players of Steel
- Table 5. Major Players of Glass
- Table 6. Global Solar Carport Frame Sales by Type (2021-2026) & (Units)
- Table 7. Global Solar Carport Frame Sales Market Share by Type (2021-2026)
- Table 8. Global Solar Carport Frame Revenue by Type (2021-2026) & (\$ million)
- Table 9. Global Solar Carport Frame Revenue Market Share by Type (2021-2026)
- Table 10. Global Solar Carport Frame Sale Price by Type (2021-2026) & (US\$/Unit)
- Table 11. Major Players of Single-Column Cantilever Frame
- Table 12. Major Players of Double-Column Portal Frame
- Table 13. Major Players of Multi-Column Truss Frame
- Table 14. Global Solar Carport Frame Sales by Structural Design (2021-2026) & (Units)
- Table 15. Global Solar Carport Frame Sales Market Share by Structural Design (2021-2026)
- Table 16. Global Solar Carport Frame Revenue by Structural Design (2021-2026) & (\$ million)
- Table 17. Global Solar Carport Frame Revenue Market Share by Structural Design (2021-2026)
- Table 18. Global Solar Carport Frame Sale Price by Structural Design (2021-2026) & (US\$/Unit)
- Table 19. Major Players of Single-Bay Systems (1 Vehicle Space)
- Table 20. Major Players of Double-Bay Systems (2 Vehicle Spaces)
- Table 21. Major Players of Small Multi-Bay Systems (3-10 Vehicle Spaces)
- Table 22. Major Players of Large Multi-Bay Systems (Above 10 Vehicle Spaces)
- Table 23. Global Solar Carport Frame Sales by Parking Bay Capacity (2021-2026) & (Units)
- Table 24. Global Solar Carport Frame Sales Market Share by Parking Bay Capacity (2021-2026)
- Table 25. Global Solar Carport Frame Revenue by Parking Bay Capacity (2021-2026) & (\$ million)
- Table 26. Global Solar Carport Frame Revenue Market Share by Parking Bay Capacity

(2021-2026)

Table 27. Global Solar Carport Frame Sale Price by Parking Bay Capacity (2021-2026) & (US\$/Unit)

Table 28. Global Solar Carport Frame Sale by Application (2021-2026) & (Units)

Table 29. Global Solar Carport Frame Sale Market Share by Application (2021-2026)

Table 30. Global Solar Carport Frame Revenue by Application (2021-2026) & (\$ million)

Table 31. Global Solar Carport Frame Revenue Market Share by Application (2021-2026)

Table 32. Global Solar Carport Frame Sale Price by Application (2021-2026) & (US\$/Unit)

Table 33. Global Solar Carport Frame Sales by Company (2021-2026) & (Units)

Table 34. Global Solar Carport Frame Sales Market Share by Company (2021-2026)

Table 35. Global Solar Carport Frame Revenue by Company (2021-2026) & (\$ millions)

Table 36. Global Solar Carport Frame Revenue Market Share by Company (2021-2026)

Table 37. Global Solar Carport Frame Sale Price by Company (2021-2026) & (US\$/Unit)

Table 38. Key Manufacturers Solar Carport Frame Producing Area Distribution and Sales Area

Table 39. Players Solar Carport Frame Products Offered

Table 40. Solar Carport Frame Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 41. New Products and Potential Entrants

Table 42. Market M&A Activity & Strategy

Table 43. Global Solar Carport Frame Sales by Geographic Region (2021-2026) & (Units)

Table 44. Global Solar Carport Frame Sales Market Share Geographic Region (2021-2026)

Table 45. Global Solar Carport Frame Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 46. Global Solar Carport Frame Revenue Market Share by Geographic Region (2021-2026)

Table 47. Global Solar Carport Frame Sales by Country/Region (2021-2026) & (Units)

Table 48. Global Solar Carport Frame Sales Market Share by Country/Region (2021-2026)

Table 49. Global Solar Carport Frame Revenue by Country/Region (2021-2026) & (\$ millions)

Table 50. Global Solar Carport Frame Revenue Market Share by Country/Region (2021-2026)

Table 51. Americas Solar Carport Frame Sales by Country (2021-2026) & (Units)

Table 52. Americas Solar Carport Frame Sales Market Share by Country (2021-2026)

Table 53. Americas Solar Carport Frame Revenue by Country (2021-2026) & (\$ millions)

Table 54. Americas Solar Carport Frame Sales by Type (2021-2026) & (Units)

Table 55. Americas Solar Carport Frame Sales by Application (2021-2026) & (Units)

Table 56. APAC Solar Carport Frame Sales by Region (2021-2026) & (Units)

Table 57. APAC Solar Carport Frame Sales Market Share by Region (2021-2026)

Table 58. APAC Solar Carport Frame Revenue by Region (2021-2026) & (\$ millions)

Table 59. APAC Solar Carport Frame Sales by Type (2021-2026) & (Units)

Table 60. APAC Solar Carport Frame Sales by Application (2021-2026) & (Units)

Table 61. Europe Solar Carport Frame Sales by Country (2021-2026) & (Units)

Table 62. Europe Solar Carport Frame Revenue by Country (2021-2026) & (\$ millions)

Table 63. Europe Solar Carport Frame Sales by Type (2021-2026) & (Units)

Table 64. Europe Solar Carport Frame Sales by Application (2021-2026) & (Units)

Table 65. Middle East & Africa Solar Carport Frame Sales by Country (2021-2026) & (Units)

Table 66. Middle East & Africa Solar Carport Frame Revenue Market Share by Country (2021-2026)

Table 67. Middle East & Africa Solar Carport Frame Sales by Type (2021-2026) & (Units)

Table 68. Middle East & Africa Solar Carport Frame Sales by Application (2021-2026) & (Units)

Table 69. Key Market Drivers & Growth Opportunities of Solar Carport Frame

Table 70. Key Market Challenges & Risks of Solar Carport Frame

Table 71. Key Industry Trends of Solar Carport Frame

Table 72. Solar Carport Frame Raw Material

Table 73. Key Suppliers of Raw Materials

Table 74. Solar Carport Frame Distributors List

Table 75. Solar Carport Frame Customer List

Table 76. Global Solar Carport Frame Sales Forecast by Region (2027-2032) & (Units)

Table 77. Global Solar Carport Frame Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 78. Americas Solar Carport Frame Sales Forecast by Country (2027-2032) & (Units)

Table 79. Americas Solar Carport Frame Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 80. APAC Solar Carport Frame Sales Forecast by Region (2027-2032) & (Units)

Table 81. APAC Solar Carport Frame Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 82. Europe Solar Carport Frame Sales Forecast by Country (2027-2032) & (Units)

Table 83. Europe Solar Carport Frame Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 84. Middle East & Africa Solar Carport Frame Sales Forecast by Country (2027-2032) & (Units)

Table 85. Middle East & Africa Solar Carport Frame Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 86. Global Solar Carport Frame Sales Forecast by Type (2027-2032) & (Units)

Table 87. Global Solar Carport Frame Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 88. Global Solar Carport Frame Sales Forecast by Application (2027-2032) & (Units)

Table 89. Global Solar Carport Frame Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 90. Powers Solar Frames Basic Information, Solar Carport Frame Manufacturing Base, Sales Area and Its Competitors

Table 91. Powers Solar Frames Solar Carport Frame Product Portfolios and Specifications

Table 92. Powers Solar Frames Solar Carport Frame Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 93. Powers Solar Frames Main Business

Table 94. Powers Solar Frames Latest Developments

Table 95. Topregal Basic Information, Solar Carport Frame Manufacturing Base, Sales Area and Its Competitors

Table 96. Topregal Solar Carport Frame Product Portfolios and Specifications

Table 97. Topregal Solar Carport Frame Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 98. Topregal Main Business

Table 99. Topregal Latest Developments

Table 100. Carport Structures Basic Information, Solar Carport Frame Manufacturing Base, Sales Area and Its Competitors

Table 101. Carport Structures Solar Carport Frame Product Portfolios and Specifications

Table 102. Carport Structures Solar Carport Frame Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 103. Carport Structures Main Business

Table 104. Carport Structures Latest Developments

Table 105. NewFrame Basic Information, Solar Carport Frame Manufacturing Base,

Sales Area and Its Competitors

Table 106. NewFrame Solar Carport Frame Product Portfolios and Specifications

Table 107. NewFrame Solar Carport Frame Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 108. NewFrame Main Business

Table 109. NewFrame Latest Developments

Table 110. Absolute Steel Basic Information, Solar Carport Frame Manufacturing Base, Sales Area and Its Competitors

Table 111. Absolute Steel Solar Carport Frame Product Portfolios and Specifications

Table 112. Absolute Steel Solar Carport Frame Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 113. Absolute Steel Main Business

Table 114. Absolute Steel Latest Developments

Table 115. Schletter Basic Information, Solar Carport Frame Manufacturing Base, Sales Area and Its Competitors

Table 116. Schletter Solar Carport Frame Product Portfolios and Specifications

Table 117. Schletter Solar Carport Frame Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 118. Schletter Main Business

Table 119. Schletter Latest Developments

Table 120. SkyJapan Basic Information, Solar Carport Frame Manufacturing Base, Sales Area and Its Competitors

Table 121. SkyJapan Solar Carport Frame Product Portfolios and Specifications

Table 122. SkyJapan Solar Carport Frame Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 123. SkyJapan Main Business

Table 124. SkyJapan Latest Developments

Table 125. HIMZEN Basic Information, Solar Carport Frame Manufacturing Base, Sales Area and Its Competitors

Table 126. HIMZEN Solar Carport Frame Product Portfolios and Specifications

Table 127. HIMZEN Solar Carport Frame Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 128. HIMZEN Main Business

Table 129. HIMZEN Latest Developments

Table 130. Universe solar(USOLAR) Basic Information, Solar Carport Frame Manufacturing Base, Sales Area and Its Competitors

Table 131. Universe solar(USOLAR) Solar Carport Frame Product Portfolios and Specifications

Table 132. Universe solar(USOLAR) Solar Carport Frame Sales (Units), Revenue (\$

Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 133. Universe solar(USOLAR) Main Business

Table 134. Universe solar(USOLAR) Latest Developments

Table 135. Sunforson Basic Information, Solar Carport Frame Manufacturing Base, Sales Area and Its Competitors

Table 136. Sunforson Solar Carport Frame Product Portfolios and Specifications

Table 137. Sunforson Solar Carport Frame Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 138. Sunforson Main Business

Table 139. Sunforson Latest Developments

Table 140. Kseng Basic Information, Solar Carport Frame Manufacturing Base, Sales Area and Its Competitors

Table 141. Kseng Solar Carport Frame Product Portfolios and Specifications

Table 142. Kseng Solar Carport Frame Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 143. Kseng Main Business

Table 144. Kseng Latest Developments

Table 145. Chiko Solar Mounting System Basic Information, Solar Carport Frame Manufacturing Base, Sales Area and Its Competitors

Table 146. Chiko Solar Mounting System Solar Carport Frame Product Portfolios and Specifications

Table 147. Chiko Solar Mounting System Solar Carport Frame Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 148. Chiko Solar Mounting System Main Business

Table 149. Chiko Solar Mounting System Latest Developments

Table 150. MG Solar Basic Information, Solar Carport Frame Manufacturing Base, Sales Area and Its Competitors

Table 151. MG Solar Solar Carport Frame Product Portfolios and Specifications

Table 152. MG Solar Solar Carport Frame Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 153. MG Solar Main Business

Table 154. MG Solar Latest Developments

Table 155. Bristar Basic Information, Solar Carport Frame Manufacturing Base, Sales Area and Its Competitors

Table 156. Bristar Solar Carport Frame Product Portfolios and Specifications

Table 157. Bristar Solar Carport Frame Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 158. Bristar Main Business

Table 159. Bristar Latest Developments

Table 160. baja Carports Basic Information, Solar Carport Frame Manufacturing Base, Sales Area and Its Competitors

Table 161. baja Carports Solar Carport Frame Product Portfolios and Specifications

Table 162. baja Carports Solar Carport Frame Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 163. baja Carports Main Business

Table 164. baja Carports Latest Developments

Table 165. Kingfeels Energy Technology Basic Information, Solar Carport Frame Manufacturing Base, Sales Area and Its Competitors

Table 166. Kingfeels Energy Technology Solar Carport Frame Product Portfolios and Specifications

Table 167. Kingfeels Energy Technology Solar Carport Frame Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 168. Kingfeels Energy Technology Main Business

Table 169. Kingfeels Energy Technology Latest Developments

Table 170. Solar Foundations Basic Information, Solar Carport Frame Manufacturing Base, Sales Area and Its Competitors

Table 171. Solar Foundations Solar Carport Frame Product Portfolios and Specifications

Table 172. Solar Foundations Solar Carport Frame Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 173. Solar Foundations Main Business

Table 174. Solar Foundations Latest Developments

Table 175. HQ MOUNT Basic Information, Solar Carport Frame Manufacturing Base, Sales Area and Its Competitors

Table 176. HQ MOUNT Solar Carport Frame Product Portfolios and Specifications

Table 177. HQ MOUNT Solar Carport Frame Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 178. HQ MOUNT Main Business

Table 179. HQ MOUNT Latest Developments

Table 180. Wanhos Solar Basic Information, Solar Carport Frame Manufacturing Base, Sales Area and Its Competitors

Table 181. Wanhos Solar Solar Carport Frame Product Portfolios and Specifications

Table 182. Wanhos Solar Solar Carport Frame Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 183. Wanhos Solar Main Business

Table 184. Wanhos Solar Latest Developments

Table 185. Lumos Solar Basic Information, Solar Carport Frame Manufacturing Base, Sales Area and Its Competitors

Table 186. Lumos Solar Solar Carport Frame Product Portfolios and Specifications

Table 187. Lumos Solar Solar Carport Frame Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 188. Lumos Solar Main Business

Table 189. Lumos Solar Latest Developments

Table 190. Mitjavila Basic Information, Solar Carport Frame Manufacturing Base, Sales Area and Its Competitors

Table 191. Mitjavila Solar Carport Frame Product Portfolios and Specifications

Table 192. Mitjavila Solar Carport Frame Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 193. Mitjavila Main Business

Table 194. Mitjavila Latest Developments

Table 195. Quest Canopies Basic Information, Solar Carport Frame Manufacturing Base, Sales Area and Its Competitors

Table 196. Quest Canopies Solar Carport Frame Product Portfolios and Specifications

Table 197. Quest Canopies Solar Carport Frame Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 198. Quest Canopies Main Business

Table 199. Quest Canopies Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Solar Carport Frame
- Figure 2. Solar Carport Frame Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Solar Carport Frame Sales Growth Rate 2021-2032 (Units)
- Figure 7. Global Solar Carport Frame Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Solar Carport Frame Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Solar Carport Frame Sales Market Share by Country/Region (2025)
- Figure 10. Solar Carport Frame Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Aluminum Alloy
- Figure 12. Product Picture of Steel
- Figure 13. Product Picture of Glass
- Figure 14. Global Solar Carport Frame Sales Market Share by Type in 2026
- Figure 15. Global Solar Carport Frame Revenue Market Share by Type (2021-2026)
- Figure 16. Product Picture of Single-Column Cantilever Frame
- Figure 17. Product Picture of Double-Column Portal Frame
- Figure 18. Product Picture of Multi-Column Truss Frame
- Figure 19. Global Solar Carport Frame Sales Market Share by Structural Design in 2026
- Figure 20. Global Solar Carport Frame Revenue Market Share by Structural Design (2021-2026)
- Figure 21. Product Picture of Single-Bay Systems (1 Vehicle Space)
- Figure 22. Product Picture of Double-Bay Systems (2 Vehicle Spaces)
- Figure 23. Product Picture of Small Multi-Bay Systems (3-10 Vehicle Spaces)
- Figure 24. Product Picture of Large Multi-Bay Systems (Above 10 Vehicle Spaces)
- Figure 25. Global Solar Carport Frame Sales Market Share by Parking Bay Capacity in 2026
- Figure 26. Global Solar Carport Frame Revenue Market Share by Parking Bay Capacity (2021-2026)
- Figure 27. Solar Carport Frame Consumed in Commercial Buildings
- Figure 28. Global Solar Carport Frame Market: Commercial Buildings (2021-2026) & (Units)
- Figure 29. Solar Carport Frame Consumed in Residential Buildings

Figure 30. Global Solar Carport Frame Market: Residential Buildings (2021-2026) & (Units)

Figure 31. Solar Carport Frame Consumed in Industrial Buildings

Figure 32. Global Solar Carport Frame Market: Industrial Buildings (2021-2026) & (Units)

Figure 33. Solar Carport Frame Consumed in Public Infrastructure

Figure 34. Global Solar Carport Frame Market: Public Infrastructure (2021-2026) & (Units)

Figure 35. Solar Carport Frame Consumed in Others

Figure 36. Global Solar Carport Frame Market: Others (2021-2026) & (Units)

Figure 37. Global Solar Carport Frame Sale Market Share by Application (2025)

Figure 38. Global Solar Carport Frame Revenue Market Share by Application in 2025

Figure 39. Solar Carport Frame Sales by Company in 2025 (Units)

Figure 40. Global Solar Carport Frame Sales Market Share by Company in 2025

Figure 41. Solar Carport Frame Revenue by Company in 2025 (\$ millions)

Figure 42. Global Solar Carport Frame Revenue Market Share by Company in 2025

Figure 43. Global Solar Carport Frame Sales Market Share by Geographic Region (2021-2026)

Figure 44. Global Solar Carport Frame Revenue Market Share by Geographic Region in 2025

Figure 45. Americas Solar Carport Frame Sales 2021-2026 (Units)

Figure 46. Americas Solar Carport Frame Revenue 2021-2026 (\$ millions)

Figure 47. APAC Solar Carport Frame Sales 2021-2026 (Units)

Figure 48. APAC Solar Carport Frame Revenue 2021-2026 (\$ millions)

Figure 49. Europe Solar Carport Frame Sales 2021-2026 (Units)

Figure 50. Europe Solar Carport Frame Revenue 2021-2026 (\$ millions)

Figure 51. Middle East & Africa Solar Carport Frame Sales 2021-2026 (Units)

Figure 52. Middle East & Africa Solar Carport Frame Revenue 2021-2026 (\$ millions)

Figure 53. Americas Solar Carport Frame Sales Market Share by Country in 2025

Figure 54. Americas Solar Carport Frame Revenue Market Share by Country (2021-2026)

Figure 55. Americas Solar Carport Frame Sales Market Share by Type (2021-2026)

Figure 56. Americas Solar Carport Frame Sales Market Share by Application (2021-2026)

Figure 57. United States Solar Carport Frame Revenue Growth 2021-2026 (\$ millions)

Figure 58. Canada Solar Carport Frame Revenue Growth 2021-2026 (\$ millions)

Figure 59. Mexico Solar Carport Frame Revenue Growth 2021-2026 (\$ millions)

Figure 60. Brazil Solar Carport Frame Revenue Growth 2021-2026 (\$ millions)

Figure 61. APAC Solar Carport Frame Sales Market Share by Region in 2025

- Figure 62. APAC Solar Carport Frame Revenue Market Share by Region (2021-2026)
- Figure 63. APAC Solar Carport Frame Sales Market Share by Type (2021-2026)
- Figure 64. APAC Solar Carport Frame Sales Market Share by Application (2021-2026)
- Figure 65. China Solar Carport Frame Revenue Growth 2021-2026 (\$ millions)
- Figure 66. Japan Solar Carport Frame Revenue Growth 2021-2026 (\$ millions)
- Figure 67. South Korea Solar Carport Frame Revenue Growth 2021-2026 (\$ millions)
- Figure 68. Southeast Asia Solar Carport Frame Revenue Growth 2021-2026 (\$ millions)
- Figure 69. India Solar Carport Frame Revenue Growth 2021-2026 (\$ millions)
- Figure 70. Australia Solar Carport Frame Revenue Growth 2021-2026 (\$ millions)
- Figure 71. China Taiwan Solar Carport Frame Revenue Growth 2021-2026 (\$ millions)
- Figure 72. Europe Solar Carport Frame Sales Market Share by Country in 2025
- Figure 73. Europe Solar Carport Frame Revenue Market Share by Country (2021-2026)
- Figure 74. Europe Solar Carport Frame Sales Market Share by Type (2021-2026)
- Figure 75. Europe Solar Carport Frame Sales Market Share by Application (2021-2026)
- Figure 76. Germany Solar Carport Frame Revenue Growth 2021-2026 (\$ millions)
- Figure 77. France Solar Carport Frame Revenue Growth 2021-2026 (\$ millions)
- Figure 78. UK Solar Carport Frame Revenue Growth 2021-2026 (\$ millions)
- Figure 79. Italy Solar Carport Frame Revenue Growth 2021-2026 (\$ millions)
- Figure 80. Russia Solar Carport Frame Revenue Growth 2021-2026 (\$ millions)
- Figure 81. Middle East & Africa Solar Carport Frame Sales Market Share by Country (2021-2026)
- Figure 82. Middle East & Africa Solar Carport Frame Sales Market Share by Type (2021-2026)
- Figure 83. Middle East & Africa Solar Carport Frame Sales Market Share by Application (2021-2026)
- Figure 84. Egypt Solar Carport Frame Revenue Growth 2021-2026 (\$ millions)
- Figure 85. South Africa Solar Carport Frame Revenue Growth 2021-2026 (\$ millions)
- Figure 86. Israel Solar Carport Frame Revenue Growth 2021-2026 (\$ millions)
- Figure 87. Turkey Solar Carport Frame Revenue Growth 2021-2026 (\$ millions)
- Figure 88. GCC Countries Solar Carport Frame Revenue Growth 2021-2026 (\$ millions)
- Figure 89. Manufacturing Cost Structure Analysis of Solar Carport Frame in 2026
- Figure 90. Manufacturing Process Analysis of Solar Carport Frame
- Figure 91. Industry Chain Structure of Solar Carport Frame
- Figure 92. Channels of Distribution
- Figure 93. Global Solar Carport Frame Sales Market Forecast by Region (2027-2032)
- Figure 94. Global Solar Carport Frame Revenue Market Share Forecast by Region (2027-2032)
- Figure 95. Global Solar Carport Frame Sales Market Share Forecast by Type (2027-2032)

Figure 96. Global Solar Carport Frame Revenue Market Share Forecast by Type
(2027-2032)

Figure 97. Global Solar Carport Frame Sales Market Share Forecast by Application
(2027-2032)

Figure 98. Global Solar Carport Frame Revenue Market Share Forecast by Application
(2027-2032)

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