

Global Intelligent Solar PV Carport Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Intelligent Solar PV Carport market size was valued at US\$ 242 million in 2025 and is forecast to a readjusted size of US\$ 561 million by 2032 with a CAGR of 12.8% during review period.

Intelligent Solar PV Carport is a smart distributed energy infrastructure system that integrates photovoltaic power generation with intelligent monitoring, control, and energy management capabilities within a canopy structure deployed at the point of consumption. It utilizes solar PV as the primary energy source while incorporating digital control systems, IoT-based monitoring, and optional energy storage and electric vehicle charging functions to enable real-time energy optimization, system diagnostics, and adaptive power distribution. By emphasizing intelligent operation and data-driven energy management, it enhances on-site energy efficiency, reduces reliance on the conventional grid, and supports smart energy utilization in residential and commercial scenarios. The system combines parking shelter, renewable energy generation, and intelligent energy services into a scalable and flexible solution. Its advantages include real-time monitoring capability, optimized energy utilization, improved operational stability, flexible modular deployment, and enhanced asset value through intelligent energy services. In 2025, the industry's capacity utilization rate was about 65% and the average gross margin was approximately 28%. Upstream, photovoltaic modules and steel structural materials remain the core inputs, with suppliers such as LONGi, Trina Solar, JinkoSolar, First Solar, ArcelorMittal, and POSCO providing standardized generation units and structural frameworks. The midstream segment focuses on canopy structure engineering, intelligent PV system integration, load-bearing design, construction execution, and grid interconnection to ensure reliable operation under site-specific conditions. Downstream demand is primarily driven by residential and

commercial scenarios, with representative customers including Vanke, Country Garden, and Wanda Group.

This report is a detailed and comprehensive analysis for global Intelligent Solar PV Carport market. Both quantitative and qualitative analyses are presented by company, 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 Intelligent Solar PV Carport market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Intelligent Solar PV Carport market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Intelligent Solar PV Carport market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Intelligent Solar PV Carport market shares of main players, in revenue (\$ Million), 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 Intelligent Solar PV Carport

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 Intelligent Solar PV Carport market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a

part of this study include BYD (China), Longi (China), Paired Power (USA), Sumitomo (Japan), JinkoSolar (China), SunPower (USA), Trina Solar (China), Solar Electric (USA), Lumos Solar (USA), Orion Carport (USA), etc.

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

Market segmentation

Intelligent Solar PV Carport 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. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

?100kW

100-500kW

Others

Market segment by Parking Space

1-10 Parking Spaces

11-20 Parking Spaces

Others

Market segment by Charging Current

AC Charging Solar Carport

DC Charging Solar Carport

Market segment by Application

Residential

Commercial

Others

Market segment by players, this report covers

BYD (China)

Longi (China)

Paired Power (USA)

Sumitomo (Japan)

JinkoSolar (China)

SunPower (USA)

Trina Solar (China)

Solar Electric (USA)

Lumos Solar (USA)

Orion Carport (USA)

Schletter (Germany)

Antaisolar (China)

Kseng Solar (China)

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Intelligent Solar PV Carport product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Intelligent Solar PV Carport, with revenue, gross margin, and global market share of Intelligent Solar PV Carport from 2021 to 2026.

Chapter 3, the Intelligent Solar PV Carport competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Intelligent Solar PV Carport market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Intelligent Solar PV Carport.

Chapter 13, to describe Intelligent Solar PV Carport research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Classification of Intelligent Solar PV Carport by Type

1.3.1 Overview: Global Intelligent Solar PV Carport Market Size by Type: 2021 Versus 2025 Versus 2032

1.3.2 Global Intelligent Solar PV Carport Consumption Value Market Share by Type in 2025

1.3.3 ?100kW

1.3.4 100-500kW

1.3.5 Others

1.4 Classification of Intelligent Solar PV Carport by Parking Space

1.4.1 Overview: Global Intelligent Solar PV Carport Market Size by Parking Space: 2021 Versus 2025 Versus 2032

1.4.2 Global Intelligent Solar PV Carport Consumption Value Market Share by Parking Space in 2025

1.4.3 1-10 Parking Spaces

1.4.4 11-20 Parking Spaces

1.4.5 Others

1.5 Classification of Intelligent Solar PV Carport by Charging Current

1.5.1 Overview: Global Intelligent Solar PV Carport Market Size by Charging Current: 2021 Versus 2025 Versus 2032

1.5.2 Global Intelligent Solar PV Carport Consumption Value Market Share by Charging Current in 2025

1.5.3 AC Charging Solar Carport

1.5.4 DC Charging Solar Carport

1.6 Global Intelligent Solar PV Carport Market by Application

1.6.1 Overview: Global Intelligent Solar PV Carport Market Size by Application: 2021 Versus 2025 Versus 2032

1.6.2 Residential

1.6.3 Commercial

1.6.4 Others

1.7 Global Intelligent Solar PV Carport Market Size & Forecast

1.8 Global Intelligent Solar PV Carport Market Size and Forecast by Region

1.8.1 Global Intelligent Solar PV Carport Market Size by Region: 2021 VS 2025 VS 2032

- 1.8.2 Global Intelligent Solar PV Carport Market Size by Region, (2021-2032)
- 1.8.3 North America Intelligent Solar PV Carport Market Size and Prospect (2021-2032)
- 1.8.4 Europe Intelligent Solar PV Carport Market Size and Prospect (2021-2032)
- 1.8.5 Asia-Pacific Intelligent Solar PV Carport Market Size and Prospect (2021-2032)
- 1.8.6 South America Intelligent Solar PV Carport Market Size and Prospect (2021-2032)
- 1.8.7 Middle East & Africa Intelligent Solar PV Carport Market Size and Prospect (2021-2032)

2 COMPANY PROFILES

2.1 BYD (China)

- 2.1.1 BYD (China) Details
- 2.1.2 BYD (China) Major Business
- 2.1.3 BYD (China) Intelligent Solar PV Carport Product and Solutions
- 2.1.4 BYD (China) Intelligent Solar PV Carport Revenue, Gross Margin and Market Share (2021-2026)
- 2.1.5 BYD (China) Recent Developments and Future Plans

2.2 Longi (China)

- 2.2.1 Longi (China) Details
- 2.2.2 Longi (China) Major Business
- 2.2.3 Longi (China) Intelligent Solar PV Carport Product and Solutions
- 2.2.4 Longi (China) Intelligent Solar PV Carport Revenue, Gross Margin and Market Share (2021-2026)
- 2.2.5 Longi (China) Recent Developments and Future Plans

2.3 Paired Power (USA)

- 2.3.1 Paired Power (USA) Details
- 2.3.2 Paired Power (USA) Major Business
- 2.3.3 Paired Power (USA) Intelligent Solar PV Carport Product and Solutions
- 2.3.4 Paired Power (USA) Intelligent Solar PV Carport Revenue, Gross Margin and Market Share (2021-2026)
- 2.3.5 Paired Power (USA) Recent Developments and Future Plans

2.4 Sumitomo (Japan)

- 2.4.1 Sumitomo (Japan) Details
- 2.4.2 Sumitomo (Japan) Major Business
- 2.4.3 Sumitomo (Japan) Intelligent Solar PV Carport Product and Solutions
- 2.4.4 Sumitomo (Japan) Intelligent Solar PV Carport Revenue, Gross Margin and Market Share (2021-2026)

- 2.4.5 Sumitomo (Japan) Recent Developments and Future Plans
- 2.5 JinkoSolar (China)
 - 2.5.1 JinkoSolar (China) Details
 - 2.5.2 JinkoSolar (China) Major Business
 - 2.5.3 JinkoSolar (China) Intelligent Solar PV Carport Product and Solutions
 - 2.5.4 JinkoSolar (China) Intelligent Solar PV Carport Revenue, Gross Margin and Market Share (2021-2026)
 - 2.5.5 JinkoSolar (China) Recent Developments and Future Plans
- 2.6 SunPower (USA)
 - 2.6.1 SunPower (USA) Details
 - 2.6.2 SunPower (USA) Major Business
 - 2.6.3 SunPower (USA) Intelligent Solar PV Carport Product and Solutions
 - 2.6.4 SunPower (USA) Intelligent Solar PV Carport Revenue, Gross Margin and Market Share (2021-2026)
 - 2.6.5 SunPower (USA) Recent Developments and Future Plans
- 2.7 Trina Solar (China)
 - 2.7.1 Trina Solar (China) Details
 - 2.7.2 Trina Solar (China) Major Business
 - 2.7.3 Trina Solar (China) Intelligent Solar PV Carport Product and Solutions
 - 2.7.4 Trina Solar (China) Intelligent Solar PV Carport Revenue, Gross Margin and Market Share (2021-2026)
 - 2.7.5 Trina Solar (China) Recent Developments and Future Plans
- 2.8 Solar Electric (USA)
 - 2.8.1 Solar Electric (USA) Details
 - 2.8.2 Solar Electric (USA) Major Business
 - 2.8.3 Solar Electric (USA) Intelligent Solar PV Carport Product and Solutions
 - 2.8.4 Solar Electric (USA) Intelligent Solar PV Carport Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 Solar Electric (USA) Recent Developments and Future Plans
- 2.9 Lumos Solar (USA)
 - 2.9.1 Lumos Solar (USA) Details
 - 2.9.2 Lumos Solar (USA) Major Business
 - 2.9.3 Lumos Solar (USA) Intelligent Solar PV Carport Product and Solutions
 - 2.9.4 Lumos Solar (USA) Intelligent Solar PV Carport Revenue, Gross Margin and Market Share (2021-2026)
 - 2.9.5 Lumos Solar (USA) Recent Developments and Future Plans
- 2.10 Orion Carport (USA)
 - 2.10.1 Orion Carport (USA) Details
 - 2.10.2 Orion Carport (USA) Major Business

- 2.10.3 Orion Carport (USA) Intelligent Solar PV Carport Product and Solutions
- 2.10.4 Orion Carport (USA) Intelligent Solar PV Carport Revenue, Gross Margin and Market Share (2021-2026)
- 2.10.5 Orion Carport (USA) Recent Developments and Future Plans
- 2.11 Schletter (Germany)
 - 2.11.1 Schletter (Germany) Details
 - 2.11.2 Schletter (Germany) Major Business
 - 2.11.3 Schletter (Germany) Intelligent Solar PV Carport Product and Solutions
 - 2.11.4 Schletter (Germany) Intelligent Solar PV Carport Revenue, Gross Margin and Market Share (2021-2026)
 - 2.11.5 Schletter (Germany) Recent Developments and Future Plans
- 2.12 Antaisolar (China)
 - 2.12.1 Antaisolar (China) Details
 - 2.12.2 Antaisolar (China) Major Business
 - 2.12.3 Antaisolar (China) Intelligent Solar PV Carport Product and Solutions
 - 2.12.4 Antaisolar (China) Intelligent Solar PV Carport Revenue, Gross Margin and Market Share (2021-2026)
 - 2.12.5 Antaisolar (China) Recent Developments and Future Plans
- 2.13 Kseng Solar (China)
 - 2.13.1 Kseng Solar (China) Details
 - 2.13.2 Kseng Solar (China) Major Business
 - 2.13.3 Kseng Solar (China) Intelligent Solar PV Carport Product and Solutions
 - 2.13.4 Kseng Solar (China) Intelligent Solar PV Carport Revenue, Gross Margin and Market Share (2021-2026)
 - 2.13.5 Kseng Solar (China) Recent Developments and Future Plans

3 MARKET COMPETITION, BY PLAYERS

- 3.1 Global Intelligent Solar PV Carport Revenue and Share by Players (2021-2026)
- 3.2 Market Share Analysis (2025)
 - 3.2.1 Market Share of Intelligent Solar PV Carport by Company Revenue
 - 3.2.2 Top 3 Intelligent Solar PV Carport Players Market Share in 2025
 - 3.2.3 Top 6 Intelligent Solar PV Carport Players Market Share in 2025
- 3.3 Intelligent Solar PV Carport Market: Overall Company Footprint Analysis
 - 3.3.1 Intelligent Solar PV Carport Market: Region Footprint
 - 3.3.2 Intelligent Solar PV Carport Market: Company Product Type Footprint
 - 3.3.3 Intelligent Solar PV Carport Market: Company Product Application Footprint
- 3.4 New Market Entrants and Barriers to Market Entry
- 3.5 Mergers, Acquisition, Agreements, and Collaborations

4 MARKET SIZE SEGMENT BY TYPE

4.1 Global Intelligent Solar PV Carport Consumption Value and Market Share by Type (2021-2026)

4.2 Global Intelligent Solar PV Carport Market Forecast by Type (2027-2032)

5 MARKET SIZE SEGMENT BY APPLICATION

5.1 Global Intelligent Solar PV Carport Consumption Value Market Share by Application (2021-2026)

5.2 Global Intelligent Solar PV Carport Market Forecast by Application (2027-2032)

6 NORTH AMERICA

6.1 North America Intelligent Solar PV Carport Consumption Value by Type (2021-2032)

6.2 North America Intelligent Solar PV Carport Market Size by Application (2021-2032)

6.3 North America Intelligent Solar PV Carport Market Size by Country

6.3.1 North America Intelligent Solar PV Carport Consumption Value by Country (2021-2032)

6.3.2 United States Intelligent Solar PV Carport Market Size and Forecast (2021-2032)

6.3.3 Canada Intelligent Solar PV Carport Market Size and Forecast (2021-2032)

6.3.4 Mexico Intelligent Solar PV Carport Market Size and Forecast (2021-2032)

7 EUROPE

7.1 Europe Intelligent Solar PV Carport Consumption Value by Type (2021-2032)

7.2 Europe Intelligent Solar PV Carport Consumption Value by Application (2021-2032)

7.3 Europe Intelligent Solar PV Carport Market Size by Country

7.3.1 Europe Intelligent Solar PV Carport Consumption Value by Country (2021-2032)

7.3.2 Germany Intelligent Solar PV Carport Market Size and Forecast (2021-2032)

7.3.3 France Intelligent Solar PV Carport Market Size and Forecast (2021-2032)

7.3.4 United Kingdom Intelligent Solar PV Carport Market Size and Forecast (2021-2032)

7.3.5 Russia Intelligent Solar PV Carport Market Size and Forecast (2021-2032)

7.3.6 Italy Intelligent Solar PV Carport Market Size and Forecast (2021-2032)

8 ASIA-PACIFIC

8.1 Asia-Pacific Intelligent Solar PV Carport Consumption Value by Type (2021-2032)

8.2 Asia-Pacific Intelligent Solar PV Carport Consumption Value by Application (2021-2032)

8.3 Asia-Pacific Intelligent Solar PV Carport Market Size by Region

8.3.1 Asia-Pacific Intelligent Solar PV Carport Consumption Value by Region (2021-2032)

8.3.2 China Intelligent Solar PV Carport Market Size and Forecast (2021-2032)

8.3.3 Japan Intelligent Solar PV Carport Market Size and Forecast (2021-2032)

8.3.4 South Korea Intelligent Solar PV Carport Market Size and Forecast (2021-2032)

8.3.5 India Intelligent Solar PV Carport Market Size and Forecast (2021-2032)

8.3.6 Southeast Asia Intelligent Solar PV Carport Market Size and Forecast (2021-2032)

8.3.7 Australia Intelligent Solar PV Carport Market Size and Forecast (2021-2032)

9 SOUTH AMERICA

9.1 South America Intelligent Solar PV Carport Consumption Value by Type (2021-2032)

9.2 South America Intelligent Solar PV Carport Consumption Value by Application (2021-2032)

9.3 South America Intelligent Solar PV Carport Market Size by Country

9.3.1 South America Intelligent Solar PV Carport Consumption Value by Country (2021-2032)

9.3.2 Brazil Intelligent Solar PV Carport Market Size and Forecast (2021-2032)

9.3.3 Argentina Intelligent Solar PV Carport Market Size and Forecast (2021-2032)

10 MIDDLE EAST & AFRICA

10.1 Middle East & Africa Intelligent Solar PV Carport Consumption Value by Type (2021-2032)

10.2 Middle East & Africa Intelligent Solar PV Carport Consumption Value by Application (2021-2032)

10.3 Middle East & Africa Intelligent Solar PV Carport Market Size by Country

10.3.1 Middle East & Africa Intelligent Solar PV Carport Consumption Value by Country (2021-2032)

10.3.2 Turkey Intelligent Solar PV Carport Market Size and Forecast (2021-2032)

10.3.3 Saudi Arabia Intelligent Solar PV Carport Market Size and Forecast (2021-2032)

10.3.4 UAE Intelligent Solar PV Carport Market Size and Forecast (2021-2032)

11 MARKET DYNAMICS

- 11.1 Intelligent Solar PV Carport Market Drivers
- 11.2 Intelligent Solar PV Carport Market Restraints
- 11.3 Intelligent Solar PV Carport Trends Analysis
- 11.4 Porters Five Forces Analysis
 - 11.4.1 Threat of New Entrants
 - 11.4.2 Bargaining Power of Suppliers
 - 11.4.3 Bargaining Power of Buyers
 - 11.4.4 Threat of Substitutes
 - 11.4.5 Competitive Rivalry

12 INDUSTRY CHAIN ANALYSIS

- 12.1 Intelligent Solar PV Carport Industry Chain
- 12.2 Intelligent Solar PV Carport Upstream Analysis
- 12.3 Intelligent Solar PV Carport Midstream Analysis
- 12.4 Intelligent Solar PV Carport Downstream Analysis

13 RESEARCH FINDINGS AND CONCLUSION

14 APPENDIX

- 14.1 Methodology
- 14.2 Research Process and Data Source
- 14.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Intelligent Solar PV Carport Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Intelligent Solar PV Carport Consumption Value by Parking Space, (USD Million), 2021 & 2025 & 2032

Table 3. Global Intelligent Solar PV Carport Consumption Value by Charging Current, (USD Million), 2021 & 2025 & 2032

Table 4. Global Intelligent Solar PV Carport Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Global Intelligent Solar PV Carport Consumption Value by Region (2021-2026) & (USD Million)

Table 6. Global Intelligent Solar PV Carport Consumption Value by Region (2027-2032) & (USD Million)

Table 7. BYD (China) Company Information, Head Office, and Major Competitors

Table 8. BYD (China) Major Business

Table 9. BYD (China) Intelligent Solar PV Carport Product and Solutions

Table 10. BYD (China) Intelligent Solar PV Carport Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 11. BYD (China) Recent Developments and Future Plans

Table 12. Longi (China) Company Information, Head Office, and Major Competitors

Table 13. Longi (China) Major Business

Table 14. Longi (China) Intelligent Solar PV Carport Product and Solutions

Table 15. Longi (China) Intelligent Solar PV Carport Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 16. Longi (China) Recent Developments and Future Plans

Table 17. Paired Power (USA) Company Information, Head Office, and Major Competitors

Table 18. Paired Power (USA) Major Business

Table 19. Paired Power (USA) Intelligent Solar PV Carport Product and Solutions

Table 20. Paired Power (USA) Intelligent Solar PV Carport Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 21. Sumitomo (Japan) Company Information, Head Office, and Major Competitors

Table 22. Sumitomo (Japan) Major Business

Table 23. Sumitomo (Japan) Intelligent Solar PV Carport Product and Solutions

Table 24. Sumitomo (Japan) Intelligent Solar PV Carport Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 25. Sumitomo (Japan) Recent Developments and Future Plans

Table 26. JinkoSolar (China) Company Information, Head Office, and Major Competitors

Table 27. JinkoSolar (China) Major Business

Table 28. JinkoSolar (China) Intelligent Solar PV Carport Product and Solutions

Table 29. JinkoSolar (China) Intelligent Solar PV Carport Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 30. JinkoSolar (China) Recent Developments and Future Plans

Table 31. SunPower (USA) Company Information, Head Office, and Major Competitors

Table 32. SunPower (USA) Major Business

Table 33. SunPower (USA) Intelligent Solar PV Carport Product and Solutions

Table 34. SunPower (USA) Intelligent Solar PV Carport Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 35. SunPower (USA) Recent Developments and Future Plans

Table 36. Trina Solar (China) Company Information, Head Office, and Major Competitors

Table 37. Trina Solar (China) Major Business

Table 38. Trina Solar (China) Intelligent Solar PV Carport Product and Solutions

Table 39. Trina Solar (China) Intelligent Solar PV Carport Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 40. Trina Solar (China) Recent Developments and Future Plans

Table 41. Solar Electric (USA) Company Information, Head Office, and Major Competitors

Table 42. Solar Electric (USA) Major Business

Table 43. Solar Electric (USA) Intelligent Solar PV Carport Product and Solutions

Table 44. Solar Electric (USA) Intelligent Solar PV Carport Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 45. Solar Electric (USA) Recent Developments and Future Plans

Table 46. Lumos Solar (USA) Company Information, Head Office, and Major Competitors

Table 47. Lumos Solar (USA) Major Business

Table 48. Lumos Solar (USA) Intelligent Solar PV Carport Product and Solutions

Table 49. Lumos Solar (USA) Intelligent Solar PV Carport Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 50. Lumos Solar (USA) Recent Developments and Future Plans

Table 51. Orion Carport (USA) Company Information, Head Office, and Major Competitors

Table 52. Orion Carport (USA) Major Business

Table 53. Orion Carport (USA) Intelligent Solar PV Carport Product and Solutions

Table 54. Orion Carport (USA) Intelligent Solar PV Carport Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 55. Orion Carport (USA) Recent Developments and Future Plans

Table 56. Schletter (Germany) Company Information, Head Office, and Major Competitors

Table 57. Schletter (Germany) Major Business

Table 58. Schletter (Germany) Intelligent Solar PV Carport Product and Solutions

Table 59. Schletter (Germany) Intelligent Solar PV Carport Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 60. Schletter (Germany) Recent Developments and Future Plans

Table 61. Antaisolar (China) Company Information, Head Office, and Major Competitors

Table 62. Antaisolar (China) Major Business

Table 63. Antaisolar (China) Intelligent Solar PV Carport Product and Solutions

Table 64. Antaisolar (China) Intelligent Solar PV Carport Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 65. Antaisolar (China) Recent Developments and Future Plans

Table 66. Kseng Solar (China) Company Information, Head Office, and Major Competitors

Table 67. Kseng Solar (China) Major Business

Table 68. Kseng Solar (China) Intelligent Solar PV Carport Product and Solutions

Table 69. Kseng Solar (China) Intelligent Solar PV Carport Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 70. Kseng Solar (China) Recent Developments and Future Plans

Table 71. Global Intelligent Solar PV Carport Revenue (USD Million) by Players (2021-2026)

Table 72. Global Intelligent Solar PV Carport Revenue Share by Players (2021-2026)

Table 73. Breakdown of Intelligent Solar PV Carport by Company Type (Tier 1, Tier 2, and Tier 3)

Table 74. Market Position of Players in Intelligent Solar PV Carport, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 75. Head Office of Key Intelligent Solar PV Carport Players

Table 76. Intelligent Solar PV Carport Market: Company Product Type Footprint

Table 77. Intelligent Solar PV Carport Market: Company Product Application Footprint

Table 78. Intelligent Solar PV Carport New Market Entrants and Barriers to Market Entry

Table 79. Intelligent Solar PV Carport Mergers, Acquisition, Agreements, and Collaborations

Table 80. Global Intelligent Solar PV Carport Consumption Value (USD Million) by Type (2021-2026)

Table 81. Global Intelligent Solar PV Carport Consumption Value Share by Type

(2021-2026)

Table 82. Global Intelligent Solar PV Carport Consumption Value Forecast by Type (2027-2032)

Table 83. Global Intelligent Solar PV Carport Consumption Value by Application (2021-2026)

Table 84. Global Intelligent Solar PV Carport Consumption Value Forecast by Application (2027-2032)

Table 85. North America Intelligent Solar PV Carport Consumption Value by Type (2021-2026) & (USD Million)

Table 86. North America Intelligent Solar PV Carport Consumption Value by Type (2027-2032) & (USD Million)

Table 87. North America Intelligent Solar PV Carport Consumption Value by Application (2021-2026) & (USD Million)

Table 88. North America Intelligent Solar PV Carport Consumption Value by Application (2027-2032) & (USD Million)

Table 89. North America Intelligent Solar PV Carport Consumption Value by Country (2021-2026) & (USD Million)

Table 90. North America Intelligent Solar PV Carport Consumption Value by Country (2027-2032) & (USD Million)

Table 91. Europe Intelligent Solar PV Carport Consumption Value by Type (2021-2026) & (USD Million)

Table 92. Europe Intelligent Solar PV Carport Consumption Value by Type (2027-2032) & (USD Million)

Table 93. Europe Intelligent Solar PV Carport Consumption Value by Application (2021-2026) & (USD Million)

Table 94. Europe Intelligent Solar PV Carport Consumption Value by Application (2027-2032) & (USD Million)

Table 95. Europe Intelligent Solar PV Carport Consumption Value by Country (2021-2026) & (USD Million)

Table 96. Europe Intelligent Solar PV Carport Consumption Value by Country (2027-2032) & (USD Million)

Table 97. Asia-Pacific Intelligent Solar PV Carport Consumption Value by Type (2021-2026) & (USD Million)

Table 98. Asia-Pacific Intelligent Solar PV Carport Consumption Value by Type (2027-2032) & (USD Million)

Table 99. Asia-Pacific Intelligent Solar PV Carport Consumption Value by Application (2021-2026) & (USD Million)

Table 100. Asia-Pacific Intelligent Solar PV Carport Consumption Value by Application (2027-2032) & (USD Million)

Table 101. Asia-Pacific Intelligent Solar PV Carport Consumption Value by Region (2021-2026) & (USD Million)

Table 102. Asia-Pacific Intelligent Solar PV Carport Consumption Value by Region (2027-2032) & (USD Million)

Table 103. South America Intelligent Solar PV Carport Consumption Value by Type (2021-2026) & (USD Million)

Table 104. South America Intelligent Solar PV Carport Consumption Value by Type (2027-2032) & (USD Million)

Table 105. South America Intelligent Solar PV Carport Consumption Value by Application (2021-2026) & (USD Million)

Table 106. South America Intelligent Solar PV Carport Consumption Value by Application (2027-2032) & (USD Million)

Table 107. South America Intelligent Solar PV Carport Consumption Value by Country (2021-2026) & (USD Million)

Table 108. South America Intelligent Solar PV Carport Consumption Value by Country (2027-2032) & (USD Million)

Table 109. Middle East & Africa Intelligent Solar PV Carport Consumption Value by Type (2021-2026) & (USD Million)

Table 110. Middle East & Africa Intelligent Solar PV Carport Consumption Value by Type (2027-2032) & (USD Million)

Table 111. Middle East & Africa Intelligent Solar PV Carport Consumption Value by Application (2021-2026) & (USD Million)

Table 112. Middle East & Africa Intelligent Solar PV Carport Consumption Value by Application (2027-2032) & (USD Million)

Table 113. Middle East & Africa Intelligent Solar PV Carport Consumption Value by Country (2021-2026) & (USD Million)

Table 114. Middle East & Africa Intelligent Solar PV Carport Consumption Value by Country (2027-2032) & (USD Million)

Table 115. Global Key Players of Intelligent Solar PV Carport Upstream (Raw Materials)

Table 116. Global Intelligent Solar PV Carport Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Intelligent Solar PV Carport Picture

Figure 2. Global Intelligent Solar PV Carport Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Intelligent Solar PV Carport Consumption Value Market Share by Type in 2025

Figure 4. ?100kW

Figure 5. 100-500kW

Figure 6. Others

Figure 7. Global Intelligent Solar PV Carport Consumption Value by Parking Space, (USD Million), 2021 & 2025 & 2032

Figure 8. Global Intelligent Solar PV Carport Consumption Value Market Share by Parking Space in 2025

Figure 9. 1-10 Parking Spaces

Figure 10. 11-20 Parking Spaces

Figure 11. Others

Figure 12. Global Intelligent Solar PV Carport Consumption Value by Charging Current, (USD Million), 2021 & 2025 & 2032

Figure 13. Global Intelligent Solar PV Carport Consumption Value Market Share by Charging Current in 2025

Figure 14. AC Charging Solar Carport

Figure 15. DC Charging Solar Carport

Figure 16. Global Intelligent Solar PV Carport Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 17. Intelligent Solar PV Carport Consumption Value Market Share by Application in 2025

Figure 18. Residential Picture

Figure 19. Commercial Picture

Figure 20. Others Picture

Figure 21. Global Intelligent Solar PV Carport Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 22. Global Intelligent Solar PV Carport Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 23. Global Market Intelligent Solar PV Carport Consumption Value (USD Million) Comparison by Region (2021 VS 2025 VS 2032)

Figure 24. Global Intelligent Solar PV Carport Consumption Value Market Share by

Region (2021-2032)

Figure 25. Global Intelligent Solar PV Carport Consumption Value Market Share by Region in 2025

Figure 26. North America Intelligent Solar PV Carport Consumption Value (2021-2032) & (USD Million)

Figure 27. Europe Intelligent Solar PV Carport Consumption Value (2021-2032) & (USD Million)

Figure 28. Asia-Pacific Intelligent Solar PV Carport Consumption Value (2021-2032) & (USD Million)

Figure 29. South America Intelligent Solar PV Carport Consumption Value (2021-2032) & (USD Million)

Figure 30. Middle East & Africa Intelligent Solar PV Carport Consumption Value (2021-2032) & (USD Million)

Figure 31. Company Three Recent Developments and Future Plans

Figure 32. Global Intelligent Solar PV Carport Revenue Share by Players in 2025

Figure 33. Intelligent Solar PV Carport Market Share by Company Type (Tier 1, Tier 2, and Tier 3) in 2025

Figure 34. Market Share of Intelligent Solar PV Carport by Player Revenue in 2025

Figure 35. Top 3 Intelligent Solar PV Carport Players Market Share in 2025

Figure 36. Top 6 Intelligent Solar PV Carport Players Market Share in 2025

Figure 37. Global Intelligent Solar PV Carport Consumption Value Share by Type (2021-2026)

Figure 38. Global Intelligent Solar PV Carport Market Share Forecast by Type (2027-2032)

Figure 39. Global Intelligent Solar PV Carport Consumption Value Share by Application (2021-2026)

Figure 40. Global Intelligent Solar PV Carport Market Share Forecast by Application (2027-2032)

Figure 41. North America Intelligent Solar PV Carport Consumption Value Market Share by Type (2021-2032)

Figure 42. North America Intelligent Solar PV Carport Consumption Value Market Share by Application (2021-2032)

Figure 43. North America Intelligent Solar PV Carport Consumption Value Market Share by Country (2021-2032)

Figure 44. United States Intelligent Solar PV Carport Consumption Value (2021-2032) & (USD Million)

Figure 45. Canada Intelligent Solar PV Carport Consumption Value (2021-2032) & (USD Million)

Figure 46. Mexico Intelligent Solar PV Carport Consumption Value (2021-2032) & (USD

Million)

Figure 47. Europe Intelligent Solar PV Carport Consumption Value Market Share by Type (2021-2032)

Figure 48. Europe Intelligent Solar PV Carport Consumption Value Market Share by Application (2021-2032)

Figure 49. Europe Intelligent Solar PV Carport Consumption Value Market Share by Country (2021-2032)

Figure 50. Germany Intelligent Solar PV Carport Consumption Value (2021-2032) & (USD Million)

Figure 51. France Intelligent Solar PV Carport Consumption Value (2021-2032) & (USD Million)

Figure 52. United Kingdom Intelligent Solar PV Carport Consumption Value (2021-2032) & (USD Million)

Figure 53. Russia Intelligent Solar PV Carport Consumption Value (2021-2032) & (USD Million)

Figure 54. Italy Intelligent Solar PV Carport Consumption Value (2021-2032) & (USD Million)

Figure 55. Asia-Pacific Intelligent Solar PV Carport Consumption Value Market Share by Type (2021-2032)

Figure 56. Asia-Pacific Intelligent Solar PV Carport Consumption Value Market Share by Application (2021-2032)

Figure 57. Asia-Pacific Intelligent Solar PV Carport Consumption Value Market Share by Region (2021-2032)

Figure 58. China Intelligent Solar PV Carport Consumption Value (2021-2032) & (USD Million)

Figure 59. Japan Intelligent Solar PV Carport Consumption Value (2021-2032) & (USD Million)

Figure 60. South Korea Intelligent Solar PV Carport Consumption Value (2021-2032) & (USD Million)

Figure 61. India Intelligent Solar PV Carport Consumption Value (2021-2032) & (USD Million)

Figure 62. Southeast Asia Intelligent Solar PV Carport Consumption Value (2021-2032) & (USD Million)

Figure 63. Australia Intelligent Solar PV Carport Consumption Value (2021-2032) & (USD Million)

Figure 64. South America Intelligent Solar PV Carport Consumption Value Market Share by Type (2021-2032)

Figure 65. South America Intelligent Solar PV Carport Consumption Value Market Share by Application (2021-2032)

Figure 66. South America Intelligent Solar PV Carport Consumption Value Market Share by Country (2021-2032)

Figure 67. Brazil Intelligent Solar PV Carport Consumption Value (2021-2032) & (USD Million)

Figure 68. Argentina Intelligent Solar PV Carport Consumption Value (2021-2032) & (USD Million)

Figure 69. Middle East & Africa Intelligent Solar PV Carport Consumption Value Market Share by Type (2021-2032)

Figure 70. Middle East & Africa Intelligent Solar PV Carport Consumption Value Market Share by Application (2021-2032)

Figure 71. Middle East & Africa Intelligent Solar PV Carport Consumption Value Market Share by Country (2021-2032)

Figure 72. Turkey Intelligent Solar PV Carport Consumption Value (2021-2032) & (USD Million)

Figure 73. Saudi Arabia Intelligent Solar PV Carport Consumption Value (2021-2032) & (USD Million)

Figure 74. UAE Intelligent Solar PV Carport Consumption Value (2021-2032) & (USD Million)

Figure 75. Intelligent Solar PV Carport Market Drivers

Figure 76. Intelligent Solar PV Carport Market Restraints

Figure 77. Intelligent Solar PV Carport Market Trends

Figure 78. Porters Five Forces Analysis

Figure 79. Intelligent Solar PV Carport Industrial Chain

Figure 80. Methodology

Figure 81. Research Process and Data Source

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