

# Global Solar-Storage-Charging Integrated 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 Solar-Storage-Charging Integrated 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.

Solar-Storage-Charging Integrated Carport is a distributed energy infrastructure system that integrates photovoltaic power generation, energy storage, and electric vehicle charging within a unified canopy structure deployed at the point of consumption. It combines on-site solar generation with battery storage systems to enable energy buffering, peak shaving, and stable power supply for charging applications, reducing reliance on the utility grid while improving energy utilization efficiency. The system supports multi-functional integration of parking shelter, local energy generation, storage management, and charging services, forming a closed-loop energy ecosystem for residential and commercial users. Its advantages include enhanced energy self-consumption, improved power stability through storage support, flexible modular deployment, and increased asset value through integrated energy and charging 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, photovoltaic-storage-charging 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 Solar-Storage-Charging Integrated 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 Solar-Storage-Charging Integrated Carport market size and forecasts, in consumption value (\$ Million), 2021-2032

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

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

Global Solar-Storage-Charging Integrated 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 Solar-Storage-Charging Integrated 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 Solar-Storage-Charging Integrated 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

Solar-Storage-Charging Integrated 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 Solar-Storage-Charging Integrated Carport product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Solar-Storage-Charging Integrated Carport, with revenue, gross margin, and global market share of Solar-Storage-Charging Integrated Carport from 2021 to 2026.

Chapter 3, the Solar-Storage-Charging Integrated 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 Solar-Storage-Charging Integrated 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 Solar-Storage-Charging Integrated Carport.

Chapter 13, to describe Solar-Storage-Charging Integrated Carport research

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