

Global Solar-Storage-Charging Integrated Carport Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Solar-Storage-Charging Integrated Carport market size is predicted to grow from US\$ 230 million in 2025 to US\$ 557 million in 2032; it is expected to grow at a CAGR of 13.6% from 2026 to 2032.

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.

United States market for Solar-Storage-Charging Integrated Carport is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Solar-Storage-Charging Integrated Carport is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Solar-Storage-Charging Integrated Carport is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Solar-Storage-Charging Integrated Carport players cover BYD (China), Longi (China), Paired Power (USA), Sumitomo (Japan), JinkoSolar (China), etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Solar-Storage-Charging Integrated Carport 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-Storage-Charging Integrated Carport.

This report presents a comprehensive overview, market shares, and growth opportunities of Solar-Storage-Charging Integrated Carport market by product type, application, key players and key regions and countries.

Segmentation by Type:

?100kW

100-500kW

Others

Segmentation by Parking Space:

1-10 Parking Spaces

11-20 Parking Spaces

Others

Segmentation by Charging Current:

AC Charging Solar Carport

DC Charging Solar Carport

Segmentation by Application:

Residential

Commercial

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 analyzing the company's coverage, product portfolio, its market penetration.

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)

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