

Global Photovoltaic EV Charging Pile Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Photovoltaic EV Charging Pile market size is expected to reach \$ 942 million by 2032, rising at a market growth of 14.9% CAGR during the forecast period (2026-2032).

A photovoltaic (PV) electric vehicle (EV) charging station is a new type of energy supply device that integrates a photovoltaic power generation system with EV charging facilities. It generates clean electricity through solar panels, which is then converted by an inverter to charge EVs. It has both grid-connected and off-grid independent power supply capabilities, enabling self-consumption of green energy.

The upstream industry mainly includes manufacturers of core equipment such as photovoltaic modules (solar panels), photovoltaic inverters, energy storage batteries, charging modules, and power semiconductors. The downstream industry covers charging operators, commercial parks, industrial parks, highway service areas, residential communities, and individual users, achieving synergistic optimization of photovoltaic, energy storage, and charging through energy management platforms. The global average price of photovoltaic electric vehicle charging piles is US\$13,658 per unit, with sales of approximately 25,200 units and a global production capacity of approximately 30,000 units. The industry profit margin is 16%.

The global photovoltaic (PV) electric vehicle charging market will see a deep integration of energy self-sufficiency and system integration in the future. At the technological level, integrated PV-storage-charging systems are becoming the mainstream. PV power generation, energy storage regulation, and smart charging are optimized collaboratively through an energy management platform. During the day, surplus PV power is stored in energy storage or used to charge vehicles, while at night or on cloudy days, it is

supplemented by energy storage and the grid, forming a complete microgrid closed loop. DC coupling technology is gradually becoming widespread, allowing PV DC power to directly supply DC charging piles, reducing AC-DC conversion losses and improving system efficiency. At the application level, scenarios are becoming increasingly diversified. Industrial parks and commercial complexes are utilizing idle rooftops and parking lots to build integrated PV-storage-charging stations, reducing electricity costs while participating in demand response. Highway service areas are combining slope PV and supercharging networks to create green energy corridors. Remote areas and islands are relying on PV-storage-charging systems to achieve independent power supply, solving the problem of insufficient grid coverage. At the business model level, energy service providers are shifting from equipment sales to electricity trading and carbon asset management, aggregating distributed PV-storage-charging resources through virtual power plants to participate in the electricity market. On the policy front, national plans for zero-carbon parks and low-carbon buildings are making photovoltaic, energy storage, and charging standard features, deeply integrating building-integrated photovoltaics (BIPV) technology with charging infrastructure. Photovoltaic charging piles are evolving from simple clean energy replenishment devices into energy nodes that integrate distributed generation, flexible energy storage, and intelligent charging.

This report studies the global Photovoltaic EV Charging Pile production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Photovoltaic EV Charging Pile and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Photovoltaic EV Charging Pile that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Photovoltaic EV Charging Pile total production and demand, 2021-2032, (Units)

Global Photovoltaic EV Charging Pile total production value, 2021-2032, (USD Million)

Global Photovoltaic EV Charging Pile production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Photovoltaic EV Charging Pile consumption by region & country, CAGR,

2021-2032 & (Units)

U.S. VS China: Photovoltaic EV Charging Pile domestic production, consumption, key domestic manufacturers and share

Global Photovoltaic EV Charging Pile production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Photovoltaic EV Charging Pile production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Photovoltaic EV Charging Pile production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Photovoltaic EV Charging Pile market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Nuvoton, JiangXi RuiHua Intelligent Technology, Wallbox, Winmate, Weidmueller, Sunoren Solar, Borgwarner, Wbstar, TELD, Leviton, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Photovoltaic EV Charging Pile market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Photovoltaic EV Charging Pile Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Photovoltaic EV Charging Pile Market, Segmentation by Type:

All-In-One Type

Modular Type

Global Photovoltaic EV Charging Pile Market, Segmentation by System Architecture:

Standalone

Grid-connected

Global Photovoltaic EV Charging Pile Market, Segmentation by Integrated Functions:

Integrated Photovoltaic-Storage-Charging

Direct Photovoltaic Charging

Global Photovoltaic EV Charging Pile Market, Segmentation by Application:

Household Use

Commercial Use

Companies Profiled:

Nuvoton

JiangXi RuiHua Intelligent Technology

Wallbox

Winmate

Weidmueller

Sunoren Solar

Borgwarner

Wbstar

TELD

Leviton

Nanjing Powercore Tech

Key Questions Answered:

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

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