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Global EV Charging Module Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global EV Charging Module market size was valued at US$ 2675 million in 2025 and is forecast to a readjusted size of US$ 5614 million by 2032 with a CAGR of 11.1% during review period.

In 2025, global EV charging module production capacity is approximately 13 million units, with actual production reaching about 10.4 million units. The global average selling price is around US$ 250 per unit. Gross margins typically range from 15%?28%, depending on power rating and cooling architecture. An Electric Vehicle Charging Module is the core AC-DC power conversion unit inside a DC fast charging station. It converts grid AC power into regulated DC output suitable for EV battery charging. Typical module power ratings range from 15kW to 60kW. High-power charging systems (120kW?480kW+) are constructed by paralleling multiple modules. Key technologies include PFC rectification, high-frequency DC-DC conversion, digital control (DSP/MCU-based), active current sharing, thermal management (air-cooled or liquid-cooled), and comprehensive protection systems. SiC-based power devices are increasingly adopted to enhance efficiency (?96%) and power density.

Upstream components include power semiconductors (IGBT, SiC MOSFET), magnetic components, electrolytic/film capacitors, control ICs, PCB assemblies, and cooling systems. Key semiconductor suppliers include Infineon Technologies, STMicroelectronics, ON Semiconductor, and Mitsubishi Electric. Midstream module manufacturers include Delta Electronics, Huawei, Shenzhen Sinexcel, and Phihong. Downstream customers include charging infrastructure operators and EV OEMs such as Tesla, BYD, and grid operators like State Grid Corporation of China.

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The EV charging module market is structurally driven by three factors: rapid EV penetration, expansion of fast-charging infrastructure, and technological upgrades toward ultra-high-power charging. As battery capacities increase and users demand shorter charging times, high-power DC charging (?350kW) is becoming mainstream in highway and urban fast-charging networks. Standard 30kW?40kW air-cooled modules face intense price competition, leading to margin compression. However, liquid-cooled architectures and SiC-based high-efficiency designs provide differentiation and margin support. Integration with energy storage systems and V2G (vehicle-to-grid) functionality may further expand revenue streams. Regional growth is strongest in China and Europe due to policy incentives and infrastructure rollout, while North America is accelerating deployment along interstate corridors. Over the next five years, the market is expected to maintain high double-digit growth with ongoing technology-driven consolidation.

This report is a detailed and comprehensive analysis for global EV Charging Module market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Power Device Technology 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 EV Charging Module market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global EV Charging Module market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global EV Charging Module market size and forecasts, by Power Device Technology and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global EV Charging Module market shares of main players, shipments in revenue ($ Million), sales quantity (K Units), and ASP (US$/Unit), 2021-2026

The Primary Objectives in This Report Are:

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To determine the size of the total market opportunity of global and key countries

To assess the growth potential for EV Charging Module

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 EV Charging Module market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include INFYPOWER, TELD, Shenzhen Winline Technology, Shenzhen Increase Technology, ZTE Corporation, UUGreenPower, Huawei, Shenzhen Sinexcel Electric, Shenzhen Megmeet Electrical, Shijiazhuang Tonhe Electronics Technologies, etc.

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

Market Segmentation

EV Charging Module market is split by Power Device Technology and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Power Device Technology, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Power Device Technology

Air-cooled Charging Module

Liquid-cooled Charging Module

Market segment by Application

Passenger Car

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Commercial Vehicles

Major players covered

INFYPOWER

TELD

Shenzhen Winline Technology

Shenzhen Increase Technology

ZTE Corporation

UUGreenPower

Huawei

Shenzhen Sinexcel Electric

Shenzhen Megmeet Electrical

Shijiazhuang Tonhe Electronics Technologies

Shenzhen Linkcon Technologies

Hangzhou Zhongheng Electric

Kehua Data

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

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South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe EV Charging Module product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of EV Charging Module, with price, sales quantity, revenue, and global market share of EV Charging Module from 2021 to 2026.

Chapter 3, the EV Charging Module competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the EV Charging Module breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Power Device Technology and by Application, with sales market share and growth rate by Power Device Technology, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and EV Charging Module market forecast, by regions, by Power Device Technology, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of EV Charging Module.

Chapter 14 and 15, to describe EV Charging Module sales channel, distributors, customers, research findings and conclusion.

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