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# Global Power Module for EV Charger Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/GF2F5D23B16BEN.html
Date: April 2026
Pages: 134
Price: US$ 4,480.00 (Single User License)
ID: GF2F5D23B16BEN

## Abstracts

The global Power Module for EV Charger market size is expected to reach $ 17214 million by 2032, rising at a market growth of 29.5% CAGR during the forecast period (2026-2032).

Power Module for EV Charger is the core energy-conversion unit inside DC charging equipment, converting AC grid power into regulated high-voltage DC for fast and ultra-fast vehicle charging. It typically integrates PFC, DC/DC conversion, control, protection, and communication functions in a standardized high-power density design (commonly 15–40 kW per module). Modular architecture enables flexible power configuration, high system efficiency, and simplified maintenance, making it the key building block for scalable public fast-charging and HPC systems.

The upstream supply chain is dominated by power semiconductors (Si IGBT and increasingly SiC MOSFET), magnetic components, capacitors, digital controllers, thermal management materials, and structural parts. Midstream players are specialized power module manufacturers and charger OEMs that perform electrical design, software integration, and system validation. Downstream demand comes from DC fast-charging station integrators, charging network operators, energy-storage-charging systems, and fleet electrification projects. The rapid expansion of public charging infrastructure is the primary volume driver.

Cost structure is heavily influenced by semiconductor devices and magnetic components, which together account for roughly 45%–55% of total module cost. Thermal management systems and control electronics form the second largest portion. In 2025, global production reached about 4,377 k units with an average price of US$601 per unit, indicating ongoing price pressure from scale manufacturing and standardized

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designs. However, the transition to SiC and liquid-cooling solutions raises the BOM cost while enabling higher ASP in high-power segments.

Gross margins vary significantly by technology level and customer type. Standard air-cooled 30–40 kW modules typically deliver 15%–22% gross margin, driven by intense competition and high volume. High-efficiency, high-power-density or SiC-based modules for HPC systems can achieve 25%–35% gross margin due to performance differentiation and lower lifecycle operating cost for customers. Long-term supply agreements with charging network operators further stabilize profitability.

Transaction detail: Long-term contract, quarterly price adjustment.

This report studies the global Power Module for EV Charger production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Power Module for EV Charger 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 Power Module for EV Charger that contribute to its increasing demand across many markets.

**Highlights and key features of the study**

Global Power Module for EV Charger total production and demand, 2021-2032, (K Units)

Global Power Module for EV Charger total production value, 2021-2032, (USD Million)

Global Power Module for EV Charger production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Power Module for EV Charger consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Power Module for EV Charger domestic production, consumption, key domestic manufacturers and share

Global Power Module for EV Charger production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

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Global Power Module for EV Charger production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Power Module for EV Charger production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Power Module for EV Charger 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 TELD, UUGreenPower, Infy Power, TonHe, Increase, Sinexcel, Megmeet Electric, Rectifier Technologies, Zhejiang EV-Tech Co., Ltd., SICON, 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 Power Module for EV Charger market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K 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 Power Module for EV Charger Market, By Region:

United States

China

Europe

Japan

South Korea

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ASEAN

India

Rest of World

Global Power Module for EV Charger Market, Segmentation by Type:

15-30 KW

35-50 KW

Others

Global Power Module for EV Charger Market, Segmentation by Semiconductor Device:

Si IGBT

Si MOSFET

SiC MOSFET

Others

Global Power Module for EV Charger Market, Segmentation by Cooling Method:

Air-cooled

Liquid Cooling

Global Power Module for EV Charger Market, Segmentation by Application:

Transportation Hub

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Public Parking

Others

Companies Profiled:

TELD

UUGreenPower

Infy Power

TonHe

Increase

Sinexcel

Megmeet Electric

Rectifier Technologies

Zhejiang EV-Tech Co., Ltd.

SICON

AcePower

Winline Technology

Huawei

XYPower

**Key Questions Answered:**

1. How big is the global Power Module for EV Charger market?
2. What is the demand of the global Power Module for EV Charger market?

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3. What is the year over year growth of the global Power Module for EV Charger market?
4. What is the production and production value of the global Power Module for EV Charger market?
5. Who are the key producers in the global Power Module for EV Charger market?
6. What are the growth factors driving the market demand?

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