

Global Automotive Grade SiC Power Module Market Growth 2025-2031

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Abstracts

The global Automotive Grade SiC Power Module market size is predicted to grow from US\$ 3149 million in 2025 to US\$ 12010 million in 2031; it is expected to grow at a CAGR of 25.0% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

Automotive Grade Silicon Carbide (SiC) Power Modules are advanced semiconductor devices designed for high-performance power electronics in vehicles. These modules utilize SiC material, which offers superior properties such as high thermal conductivity, high voltage tolerance, and low energy loss compared to traditional silicon-based components. Structurally, they often adopt configurations like three-phase full-bridge topology and integrate advanced manufacturing processes such as nano-silver sintering, Cu clip bonding, and ultrasonic welding. These innovations enhance reliability, reduce thermal resistance, and improve current-carrying capacity, enabling operation at higher temperatures (up to 175°C junction temperature) and frequencies (over 20 kHz). Key applications include inverters, DC-DC converters, and onboard chargers in electric vehicles (EVs), where they optimize energy conversion efficiency, extend driving range, and support high-power systems (e.g., 800V architectures).

Key trends include the shift toward 800V high-voltage systems to support ultra-fast charging and higher power density, as seen in platforms like E-GMP and Porsche Taycan³⁴. Technological advancements, such as STMicroelectronics' third-generation ACEPACK DRIVE modules and BorgWarner's double-sided cooling (DSC) designs, are enhancing thermal management and reducing energy losses, enabling compact

inverter solutions for next-gen EVs. Additionally, growing demand for EVs, government incentives for zero-emission vehicles, and integration into autonomous driving systems are accelerating adoption¹. Challenges remain, including high production costs and supply chain constraints for SiC materials, but innovations in manufacturing (e.g., cost-effective wafer processing) and collaborations between automakers and semiconductor firms are expected to mitigate these barriers, further solidifying SiC's role in sustainable mobility.

The key players of SiC MOSFET modules are STMicroelectronics, Infineon, Wolfspeed, Rohm, Onsemi, BYD Semiconductor, Microchip (Microsemi), Mitsubishi Electric (Vincotech) and Semikron Danfoss, etc. The top three players hold a share over 70 percent in 2022.

Currently automotive is the largest application of SiC modules. driven by demand from China, UAS, EU, and Japan. China is one of the world's largest automotive markets, and its growth potential remains high. In particular, high rates of growth for electric-powered vehicles make China one of the largest markets for electromobility.

Global new energy vehicles continue to grow rapidly. In 2023, the total sales of new energy vehicles in the world reached 14.65 million, a simultaneous increase of 35.4%. Among them, China's new energy vehicle sales reached 9.495 million, accounting for 64.8% of global sales. The production and sales of new energy vehicles have ranked first in the world for eight consecutive years. In 2023, the sales of new energy vehicles in the United States and Europe were 2.94 million and 1.46 million respectively, with year-on-year growth rates of 18.3% and 48.0% respectively.

LP Information, Inc. (LPI) ' newest research report, the "Automotive Grade SiC Power Module Industry Forecast" looks at past sales and reviews total world Automotive Grade SiC Power Module sales in 2024, providing a comprehensive analysis by region and market sector of projected Automotive Grade SiC Power Module sales for 2025 through 2031. With Automotive Grade SiC Power Module sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Automotive Grade SiC Power Module industry.

This Insight Report provides a comprehensive analysis of the global Automotive Grade SiC Power Module landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Automotive Grade SiC Power Module portfolios and capabilities, market

entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Automotive Grade SiC Power Module market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Automotive Grade SiC Power Module 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 Automotive Grade SiC Power Module.

This report presents a comprehensive overview, market shares, and growth opportunities of Automotive Grade SiC Power Module market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

1200V SiC Module

750V and 900V SiC Module

Segmentation by Application:

EV Main Inverter

EV Charging

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

STMicroelectronics

Infineon

Wolfspeed

Rohm

onsemi

BYD Semiconductor

Microchip (Microsemi)

Mitsubishi Electric (Vincotech)

Semikron Danfoss

Fuji Electric

Toshiba

CETC 55

BASiC Semiconductor

SemiQ

SanRex

Bosch

GE Aerospace

Zhuzhou CRRC Times Electric

StarPower

Guangdong AccoPower Semiconductor

Cisoid

United Nova Technology

Leadrive Technology

InventChip Technology

ANHI Semiconductor

HAIMOSIC (SHANGHAI)

Shenzhen AST Science Technology

Hangzhou Silan Microelectronics

Wuxi Leapers Semiconductor

WeEn Semiconductors

Denso

MacMic Science & Technolog

Key Questions Addressed in this Report

What is the 10-year outlook for the global Automotive Grade SiC Power Module market?

What factors are driving Automotive Grade SiC Power Module market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Automotive Grade SiC Power Module market opportunities vary by end market size?

How does Automotive Grade SiC Power Module break out by Type, by Application?

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