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Global Automotive Grade SiC Power 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 Automotive Grade SiC Power Module market size was valued at US$ 2507 million in 2025 and is forecast to a readjusted size of US$ 7897 million by 2032 with a CAGR of 18.0% during review period.

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

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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.

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

Global Automotive Grade SiC Power Module market size and forecasts by region and

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country, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Automotive Grade SiC Power Module market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Automotive Grade SiC Power 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:
To determine the size of the total market opportunity of global and key countries
To assess the growth potential for Automotive Grade SiC Power 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 Automotive Grade SiC Power 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 Infineon, Mitsubishi Electric, Fuji Electric, Semikron Danfoss, Bosch, onsemi, Microchip, STMicroelectronics, BYD, StarPower, etc.

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

Market Segmentation

Automotive Grade SiC Power Module market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, 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 Type

1200V SiC Module

750V and 900V SiC Module

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Market segment by Application

- EV Main Inverter
- EV Charging
- Others

Major players covered

- Infineon
- Mitsubishi Electric
- Fuji Electric
- Semikron Danfoss
- Bosch
- onsemi
- Microchip
- STMicroelectronics
- BYD
- StarPower
- Zhuzhou CRRC Times Electric
- Hangzhou Silan Microelectronics
- MacMic Science & Technolog

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Guangdong AccoPower Semiconductor

United Nova Technology

Grecon Semiconductor (Shanghai)

Wolfspeed

Rohm

Leadrive Technology

HAIMOSIC (SHANGHAI)

Suzhou Sko Semiconductor

Shenzhen Aishite Technology

Suzhou Xizhi Technology

Archimedes Semiconductor (Hefei)

Toshiba

BASiC Semiconductor

SanRex

Cissoid

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)
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)

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

Chapter 1, to describe Automotive Grade SiC Power Module product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automotive Grade SiC Power Module, with price, sales quantity, revenue, and global market share of Automotive Grade SiC Power Module from 2021 to 2026.

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

Chapter 4, the Automotive Grade SiC Power 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 Type and by Application, with sales market share and growth rate by Type, 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 Automotive Grade SiC Power Module market forecast, by regions, by Type, 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 Automotive Grade SiC Power Module.

Chapter 14 and 15, to describe Automotive Grade SiC Power Module sales channel, distributors, customers, research findings and conclusion.

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