

Global Automotive Silicon Carbide (SiC) Power Modules Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

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Abstracts

According to our (Global Info Research) latest study, the global Automotive Silicon Carbide (SiC) Power Modules market size was valued at USD 968.2 million in 2022 and is forecast to a readjusted size of USD 2023.1 million by 2029 with a CAGR of 11.1% during review period.

Automotive silicon carbide module is an electronic device used in automobile electric transmission systems. It consists of multiple silicon carbide chips, radiators, insulating materials and connectors. As the core component of the module, silicon carbide chips are manufactured using modern semiconductor technology and can achieve high power, high efficiency, and high frequency control and switching. They are suitable for inverters, chargers, DC-DC converters, etc. of electric vehicles. Various applications.

Growing demand: As electric and hybrid vehicles gain popularity, demand for efficient, high-performance electronic devices increases. Silicon carbide modules are widely used in automotive power conversion and motor control scenarios due to their high efficiency, high temperature resistance, and long life. Therefore, the demand for automotive silicon carbide modules is also growing.

Technological progress: As silicon carbide device manufacturing technology continues to advance, its reliability, stability and performance are also constantly improving. This further promotes the development of the automotive silicon carbide module market.

The Global Info Research report includes an overview of the development of the Automotive Silicon Carbide (SiC) Power Modules industry chain, the market status of Passenger Cars (SiC MOSFET+SiC SBD Type, SiC MOSFET Only Type), Commercial

Vehicles (SiC MOSFET+SiC SBD Type, SiC MOSFET Only Type), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Automotive Silicon Carbide (SiC) Power Modules.

Regionally, the report analyzes the Automotive Silicon Carbide (SiC) Power Modules markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Automotive Silicon Carbide (SiC) Power Modules market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Automotive Silicon Carbide (SiC) Power Modules market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Automotive Silicon Carbide (SiC) Power Modules industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., SiC MOSFET+SiC SBD Type, SiC MOSFET Only Type).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Automotive Silicon Carbide (SiC) Power Modules market.

Regional Analysis: The report involves examining the Automotive Silicon Carbide (SiC) Power Modules market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Automotive Silicon Carbide (SiC) Power Modules market. This may include estimating market growth rates, predicting market demand,

and identifying emerging trends.

The report also involves a more granular approach to Automotive Silicon Carbide (SiC) Power Modules:

Company Analysis: Report covers individual Automotive Silicon Carbide (SiC) Power Modules manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Automotive Silicon Carbide (SiC) Power Modules. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Passenger Cars, Commercial Vehicles).

Technology Analysis: Report covers specific technologies relevant to Automotive Silicon Carbide (SiC) Power Modules. It assesses the current state, advancements, and potential future developments in Automotive Silicon Carbide (SiC) Power Modules areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Automotive Silicon Carbide (SiC) Power Modules market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Automotive Silicon Carbide (SiC) Power Modules market is split by Type and by Application. For the period 2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

SiC MOSFET+SiC SBD Type

SiC MOSFET Only Type

Market segment by Application

Passenger Cars

Commercial Vehicles

Major players covered

Infineon Technologies

ON Semiconductor

Mitsubishi Electric

STMicroelectronics

Fuji Electric

Cree

Texas Instruments

Renesas Electronics

Power Integrations

Toshiba

IXYS

Vishay Intertechnology

Vicor

Allegro MicroSystems

Analog Devices

NXP Semiconductors

Wolfspeed

ROHM Semiconductor

GeneSiC Semiconductor

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)

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

Chapter 1, to describe Automotive Silicon Carbide (SiC) Power Modules product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automotive Silicon Carbide (SiC) Power Modules, with price, sales, revenue and global market share of Automotive Silicon Carbide (SiC) Power Modules from 2018 to 2023.

Chapter 3, the Automotive Silicon Carbide (SiC) Power Modules competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Automotive Silicon Carbide (SiC) Power Modules breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2018 to 2029.

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 2017 to 2022. and Automotive Silicon Carbide (SiC) Power Modules market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

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 Silicon Carbide (SiC) Power Modules.

Chapter 14 and 15, to describe Automotive Silicon Carbide (SiC) Power Modules sales channel, distributors, customers, research findings and conclusion.

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