

Global Automotive Silicon Carbide (SiC) Power Modules Supply, Demand and Key Producers, 2023-2029

<https://marketpublishers.com/r/G83E76EE0E2BEN.html>

Date: December 2023

Pages: 143

Price: US\$ 4,480.00 (Single User License)

ID: G83E76EE0E2BEN

Abstracts

The global Automotive Silicon Carbide (SiC) Power Modules market size is expected to reach \$ 2023.1 million by 2029, rising at a market growth of 11.1% CAGR during the forecast period (2023-2029).

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.

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.

This report studies the global Automotive Silicon Carbide (SiC) Power Modules production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automotive

Silicon Carbide (SiC) Power Modules, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Automotive Silicon Carbide (SiC) Power Modules that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Automotive Silicon Carbide (SiC) Power Modules total production and demand, 2018-2029, (K Units)

Global Automotive Silicon Carbide (SiC) Power Modules total production value, 2018-2029, (USD Million)

Global Automotive Silicon Carbide (SiC) Power Modules production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global Automotive Silicon Carbide (SiC) Power Modules consumption by region & country, CAGR, 2018-2029 & (K Units)

U.S. VS China: Automotive Silicon Carbide (SiC) Power Modules domestic production, consumption, key domestic manufacturers and share

Global Automotive Silicon Carbide (SiC) Power Modules production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (K Units)

Global Automotive Silicon Carbide (SiC) Power Modules production by Type, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global Automotive Silicon Carbide (SiC) Power Modules production by Application production, value, CAGR, 2018-2029, (USD Million) & (K Units).

This reports profiles key players in the global Automotive Silicon Carbide (SiC) Power Modules 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 Infineon Technologies, ON Semiconductor, Mitsubishi Electric, STMicroelectronics, Fuji Electric, Cree, Texas Instruments, Renesas Electronics and Power Integrations, 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 Automotive Silicon Carbide (SiC) Power Modules 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 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Automotive Silicon Carbide (SiC) Power Modules Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive Silicon Carbide (SiC) Power Modules Market, Segmentation by Type

SiC MOSFET+SiC SBD Type

SiC MOSFET Only Type

Global Automotive Silicon Carbide (SiC) Power Modules Market, Segmentation by Application

Passenger Cars

Commercial Vehicles

Companies Profiled:

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

Key Questions Answered

1. How big is the global Automotive Silicon Carbide (SiC) Power Modules market?
2. What is the demand of the global Automotive Silicon Carbide (SiC) Power Modules market?
3. What is the year over year growth of the global Automotive Silicon Carbide (SiC) Power Modules market?
4. What is the production and production value of the global Automotive Silicon Carbide (SiC) Power Modules market?
5. Who are the key producers in the global Automotive Silicon Carbide (SiC) Power Modules market?

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