

Global Silicon Carbide Power MOSFETs Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/GBA00465C30AEN.html>

Date: October 2024

Pages: 114

Price: US\$ 3,480.00 (Single User License)

ID: GBA00465C30AEN

Abstracts

According to our (Global Info Research) latest study, the global Silicon Carbide Power MOSFETs market size was valued at USD 435.7 million in 2023 and is forecast to a readjusted size of USD 1251.4 million by 2030 with a CAGR of 16.3% during review period.

Silicon carbide MOSFETs have the characteristics of low on-resistance and small switching losses, which can reduce device losses and improve system efficiency, and are more suitable for high-frequency circuits. It is widely used in the fields of new energy vehicle motor controller, vehicle power supply, solar inverter, charging pile, UPS, PFC power supply and other fields.

Global key players of SiC MOSFETs include Wolfspeed, Infineon Technologies, STMicroelectronics, ROHM etc. The top three manufacturers hold 52% of the market. Europe is the largest market, has a share about over 74%, followed by APAC and North America, with share 18% and 6%, separately.

The Global Info Research report includes an overview of the development of the Silicon Carbide Power MOSFETs industry chain, the market status of Telecommunications (Sic MOSFET Chip and Device, Sic MOSFET Module), Automotive (Sic MOSFET Chip and Device, Sic MOSFET Module), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Silicon Carbide Power MOSFETs.

Regionally, the report analyzes the Silicon Carbide Power MOSFETs 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 Silicon Carbide Power MOSFETs market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Silicon Carbide Power MOSFETs 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 Silicon Carbide Power MOSFETs 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 Chip and Device, Sic MOSFET Module).

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 Silicon Carbide Power MOSFETs market.

Regional Analysis: The report involves examining the Silicon Carbide Power MOSFETs 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 Silicon Carbide Power MOSFETs market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Silicon Carbide Power MOSFETs:

Company Analysis: Report covers individual Silicon Carbide Power MOSFETs 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 Silicon Carbide Power MOSFETs. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Telecommunications, Automotive).

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

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Silicon Carbide Power MOSFETs 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

Silicon Carbide Power MOSFETs market is split by Type and by Application. For the period 2019-2030, 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 Chip and Device

Sic MOSFET Module

Market segment by Application

Telecommunications

Automotive

Consumer Electronics

Energy and Utility

Medical

Others

Major players covered

STMicroelectronics

Infineon Technologies AG

ROHM Semiconductor

GeneSiC Semiconductor Inc.

CREE Inc.(Wolfspeed)

ON Semiconductor

Microchip Technology

IXYS Corporation

Littelfuse

Toshiba

Mitsubishi Electric

Imperix

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 Silicon Carbide Power MOSFETs product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Silicon Carbide Power MOSFETs, with price, sales, revenue and global market share of Silicon Carbide Power MOSFETs from 2019 to 2024.

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

Chapter 4, the Silicon Carbide Power MOSFETs breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2023. and Silicon Carbide Power MOSFETs market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Silicon

Carbide Power MOSFETs.

Chapter 14 and 15, to describe Silicon Carbide Power MOSFETs sales channel, distributors, customers, research findings and conclusion.

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