

Global SiC Based Power Electronics Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global SiC Based Power Electronics market size was valued at USD 2150.9 million in 2023 and is forecast to a readjusted size of USD 12610 million by 2030 with a CAGR of 28.7% during review period.

This report studies the SiC Based Power Electronics, key segments cover SiC MOSFET, SiC Schottky Barrier Diodes (SBDs), SiC FETs, SiC JFETs etc.

Global key players of SiC Based Power Electronics include STMicroelectronics, Infineon and Wolfspeed, etc. The top three players hold a share over 60%. Asia Pacific is the largest market, has a share about 60%. In terms of product type, SiC MOSFET Module is the largest segment, occupied for a share of about 50%, and in terms of application, Automotive & EV/HEV has a share about 60 percent.

The Global Info Research report includes an overview of the development of the SiC Based Power Electronics industry chain, the market status of Automotive & EV/HEV (SiC MOSFET Module, SiC MOSFET Discrete), EV Charging (SiC MOSFET Module, SiC MOSFET Discrete), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of SiC Based Power Electronics.

Regionally, the report analyzes the SiC Based Power Electronics 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 SiC Based Power Electronics market, with robust domestic

demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the SiC Based Power Electronics 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 SiC Based Power Electronics 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 Pieces), revenue generated, and market share of different by Type (e.g., SiC MOSFET Module, SiC MOSFET Discrete).

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 SiC Based Power Electronics market.

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

The report also involves a more granular approach to SiC Based Power Electronics:

Company Analysis: Report covers individual SiC Based Power Electronics 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 SiC Based Power Electronics This may involve surveys, interviews,

and analysis of consumer reviews and feedback from different by Application (Automotive & EV/HEV, EV Charging).

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

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the SiC Based Power Electronics 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

SiC Based Power Electronics 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 Module

SiC MOSFET Discrete

SiC SBD

Others (SiC JFETs & FETs)

Market segment by Application

Automotive & EV/HEV

EV Charging

Industrial Motor/Drive

PV, Energy Storage, Wind Power

UPS, Data Center & Server

Rail Transport

Others

Major players covered

STMicroelectronics

Infineon

Wolfspeed

Rohm

onsemi

BYD Semiconductor

Microchip (Microsemi)

Mitsubishi Electric (Vincotech)

Semikron Danfoss

Fuji Electric

Navitas (GeneSiC)

Toshiba

Qorvo (UnitedSiC)

San'an Optoelectronics

Littelfuse (IXYS)

CETC 55

WeEn Semiconductors

BASiC Semiconductor

SemiQ

Diodes Incorporated

SanRex

Alpha & Omega Semiconductor

Bosch

GE Aerospace

KEC Corporation

PANJIT Group

Nexperia

Vishay Intertechnology

Zhuzhou CRRC Times Electric

China Resources Microelectronics Limited

StarPower

Yangzhou Yangjie Electronic Technology

Guangdong AccoPower Semiconductor

Changzhou Galaxy Century Microelectronics

Hangzhou Silan Microelectronics

Cisoid

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 SiC Based Power Electronics product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of SiC Based Power Electronics, with price, sales, revenue and global market share of SiC Based Power Electronics from 2019 to 2024.

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

Chapter 4, the SiC Based Power Electronics 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 SiC Based Power Electronics 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 SiC Based Power Electronics.

Chapter 14 and 15, to describe SiC Based Power Electronics sales channel, distributors, customers, research findings and conclusion.

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