

# Global Silicon Carbide (SiC) Power Semiconductors 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 Silicon Carbide (SiC) Power Semiconductors market size was valued at USD 1196.7 million in 2023 and is forecast to a readjusted size of USD 6751.4 million by 2030 with a CAGR of 28.0% during review period.

Silicon carbide, also known as carborundum, is a semiconductor containing silicon and carbon. It occurs in nature as the extremely rare mineral moissanite.

According to our Semiconductor Research Center, in 2022, the global SiC wafer was valued at US\$ 750 million, will grow rapidly in next six years, driven by the strong demand from electric vehicle (EV). Currently the 6 inch SiC substrates are dominating this market, and in next six years, more players will put into production the 8 inch SiC wafers. Currently the key players of SiC are mainly located headquartered United States, Europe, Japan and China, especially in China, more companies are entering the SiC market. It is predicted that, Chinese companies will play key roles in the SiC market in next ten years.

The Global Info Research report includes an overview of the development of the Silicon Carbide (SiC) Power Semiconductors industry chain, the market status of IT and Telecom (Hybrid Type, Full Type), Aerospace and Defense (Hybrid Type, Full Type), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Silicon Carbide (SiC) Power Semiconductors.

Regionally, the report analyzes the Silicon Carbide (SiC) Power Semiconductors

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 (SiC) Power Semiconductors market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Silicon Carbide (SiC) Power Semiconductors 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 (SiC) Power Semiconductors 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., Hybrid Type, Full 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 Silicon Carbide (SiC) Power Semiconductors market.

**Regional Analysis:** The report involves examining the Silicon Carbide (SiC) Power Semiconductors 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 (SiC) Power Semiconductors 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 (SiC) Power Semiconductors:

**Company Analysis:** Report covers individual Silicon Carbide (SiC) Power

Semiconductors 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 (SiC) Power Semiconductors. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (IT and Telecom, Aerospace and Defense).

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

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Silicon Carbide (SiC) Power Semiconductors 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 (SiC) Power Semiconductors 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

Hybrid Type

Full Type

### Market segment by Application

IT and Telecom

Aerospace and Defense

Industrial

Energy and Power

Electronics

Automotive

Healthcare

Others

#### Major players covered

STMicroelectronics

Infineon

Wolfspeed

ROHM

ON Semiconductor

BYD

Microchip Technology

Mitsubishi Electric (Vincotech)

Semikron-Danfoss

Fuji Electric

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Littelfuse (IXYS)

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Bosch

GE Aerospace

KEC

SanRex

Cisoid

Shenzhen BASiC Semiconductor

CETC55

Zhuzhou CRRC Times Electric

StarPower Semiconductor

AccoPower 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 Silicon Carbide (SiC) Power Semiconductors product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Silicon Carbide (SiC) Power Semiconductors 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 (SiC) Power Semiconductors 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 (SiC) Power Semiconductors.

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

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