

# Global SiC Based Power Electronics Supply, Demand and Key Producers, 2023-2029

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## Abstracts

The global SiC Based Power Electronics market size is expected to reach \$ 12610 million by 2029, rising at a market growth of 28.7% CAGR during the forecast period (2023-2029).

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.

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

This report studies the global SiC Based Power Electronics production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for SiC Based Power Electronics, 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 SiC Based Power Electronics that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global SiC Based Power Electronics total production and demand, 2018-2029, (K Pieces)

Global SiC Based Power Electronics total production value, 2018-2029, (USD Million)

Global SiC Based Power Electronics production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (K Pieces)

Global SiC Based Power Electronics consumption by region & country, CAGR, 2018-2029 & (K Pieces)

U.S. VS China: SiC Based Power Electronics domestic production, consumption, key domestic manufacturers and share

Global SiC Based Power Electronics production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (K Pieces)

Global SiC Based Power Electronics production by Type, production, value, CAGR, 2018-2029, (USD Million) & (K Pieces)

Global SiC Based Power Electronics production by Application production, value, CAGR, 2018-2029, (USD Million) & (K Pieces).

This reports profiles key players in the global SiC Based Power Electronics 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 STMicroelectronics, Infineon, Wolfspeed, Rohm, onsemi, BYD Semiconductor, Microchip (Microsemi), Mitsubishi Electric (Vincotech) and Semikron Danfoss, 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 SiC Based Power Electronics market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Pieces) and average price (US\$/Pcs) 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 SiC Based Power Electronics Market, By Region:

%II%United States

%II%China

%II%Europe

%II%Japan

%II%South Korea

%II%ASEAN

%II%India

%II%Rest of World

#### Global SiC Based Power Electronics Market, Segmentation by Type

%II%SiC MOSFET Module

%II%SiC MOSFET Discrete

%II%SiC SBD

%II%Others (SiC JFETs & FETs)

#### Global SiC Based Power Electronics Market, Segmentation by Application

%II%Automotive & EV/HEV

%II%EV Charging

%II%Industrial Motor/Drive

%II%PV, Energy Storage, Wind Power

%II%UPS, Data Center & Server

%II%Rail Transport

%II%Others

Companies Profiled:

%II%STMicroelectronics

%II%Infineon

%II%Wolfspeed

%II%Rohm

%II%onsemi

%II%BYD Semiconductor

%II%Microchip (Microsemi)

%II%Mitsubishi Electric (Vincotech)

%II%Semikron Danfoss

%II%Fuji Electric

%II%Navitas (GeneSiC)

%II%Toshiba

%II%Qorvo (UnitedSiC)

%II%San'an Optoelectronics

%II%Littelfuse (IXYS)

%II%CETC 55

%II%WeEn Semiconductors

%II%BASiC Semiconductor

%II%SemiQ

%II%Diodes Incorporated

%II%SanRex

%II%Alpha & Omega Semiconductor

%II%Bosch

%II%GE Aerospace

%II%KEC Corporation

%II%PANJIT Group

%II%Nexperia

%II%Vishay Intertechnology

%II%Zhuzhou CRRR Times Electric

%II%China Resources Microelectronics Limited

%II%StarPower

%II%Yangzhou Yangjie Electronic Technology

%II%Guangdong AccoPower Semiconductor

%II%Changzhou Galaxy Century Microelectronics

%II%Hangzhou Silan Microelectronics

%II%Cissoid

Key Questions Answered

1. How big is the global SiC Based Power Electronics market?
2. What is the demand of the global SiC Based Power Electronics market?
3. What is the year over year growth of the global SiC Based Power Electronics market?
4. What is the production and production value of the global SiC Based Power Electronics market?
5. Who are the key producers in the global SiC Based Power Electronics market?

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Figure 56. SiC Based Power Electronics Procurement Model

Figure 57. SiC Based Power Electronics Sales Model

Figure 58. SiC Based Power Electronics Sales Channels, Direct Sales, and Distribution

Figure 59. Methodology

Figure 60. Research Process and Data Source



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