

# Global Silicon Carbide (SiC) Power Devices Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Silicon Carbide (SiC) Power Devices market size is expected to reach \$ 21860 million by 2032, rising at a market growth of 20.1% CAGR during the forecast period (2026-2032).

SiC (silicon carbide) is a compound semiconductor composed of silicon and carbide. SiC provides a number of advantages over silicon, including 10x the breakdown electric field strength, 3x the band gap, and enabling a wider range of p- and n-type control required for device construction.

Silicon Carbide (SiC) devices have emerged as the most viable candidate for next-generation, low-loss semiconductors due to its low ON resistance and superior high-temperature, high-frequency, and high-voltage performance when compared to silicon. SiC also allows designers to use fewer components, further reducing design complexity. The low ON resistance of SiC devices contribute to significantly lower energy consumption, allowing users to design environmentally friendly products and systems that reduce CO2 emissions.

This report studies SiC power devices, including SiC MOSFET Module, SiC MOSFET Discrete and SiC diode.

Silicon Carbide (SiC) devices are widely used in automotive, EV charging, industrial motor/drive, PV, energy storage, wind power, UPS, data center & server and rail transport, etc.

In automotive, SiC power devices are mainly used in automotive main inverter, on-board chargers (OBC) and DC/DC converter. and the SiC power devices market was

dominated by STMicroelectronics, Infineon, Wolfspeed, Rohm, Onsemi, BYD Semiconductor.

Automotive is the largest market, hold a share over 65%, mainly used in OBC, DC/DC Converter, etc.

Global new energy vehicles continue to grow rapidly. In 2023, the total sales of new energy vehicles in the world reached 14.65 million, a simultaneous increase of 35.4%. Among them, China's new energy vehicle sales reached 9.495 million, accounting for 64.8% of global sales. The production and sales of new energy vehicles have ranked first in the world for eight consecutive years. In 2023, the sales of new energy vehicles in the United States and Europe were 2.94 million and 1.46 million respectively, with year-on-year growth rates of 18.3% and 48.0% respectively.

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

This report is a detailed and comprehensive analysis of the world market for Silicon Carbide (SiC) Power Devices and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Silicon Carbide (SiC) Power Devices that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Silicon Carbide (SiC) Power Devices total production and demand, 2021-2032, (K Pcs)

Global Silicon Carbide (SiC) Power Devices total production value, 2021-2032, (USD Million)

Global Silicon Carbide (SiC) Power Devices production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs), (based on production site)

Global Silicon Carbide (SiC) Power Devices consumption by region & country, CAGR, 2021-2032 & (K Pcs)

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

Global Silicon Carbide (SiC) Power Devices production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Pcs)

Global Silicon Carbide (SiC) Power Devices production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

Global Silicon Carbide (SiC) Power Devices production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global Silicon Carbide (SiC) Power Devices 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), Semikron Danfoss, Fuji Electric, 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 Silicon Carbide (SiC) Power Devices market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Pcs) and average price (US\$/Pcs) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

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

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

## Global Silicon Carbide (SiC) Power Devices Market, Segmentation by Type:

SiC MOSFET Modules

SiC MOSFET Discretes

SiC Diode/SBD

Others (SiC JFETs & FETs)

## Global Silicon Carbide (SiC) Power Devices Market, Segmentation by Application:

Automotive & EV/HEV

EV Charging

Industrial Motor/Drive

PV, Energy Storage, Wind Power

UPS, Data Center & Server

Rail Transport

Others

## Companies Profiled:

STMicroelectronics

Infineon

Wolfspeed

Rohm

onsemi

BYD Semiconductor

Microchip (Microsemi)

Mitsubishi Electric (Vincotech)

Semikron Danfoss

Fuji Electric

Navitas (GeneSiC)

Toshiba

San'an Optoelectronics

Littelfuse

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

Hebei Sinopack Electronic Technology

PN Junction Semiconductor (Hangzhou)

United Nova Technology

InventChip Technology

Leadrive Technology

HAIMOSIC (SHANGHAI)

Suzhou Sko Semiconductor

Shenzhen Aishite Technology

Suzhou Xizhi Technology

Archimedes Semiconductor (Hefei)

Grecon Semiconductor (Shanghai)

**Key Questions Answered:**

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

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