

# Global Silicon Carbide Power Semiconductors Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Silicon Carbide Power Semiconductors 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).

Silicon carbide (SiC) power semiconductors are wide-bandgap power devices that enable higher breakdown voltages, faster switching, lower conduction and switching losses, and superior thermal performance compared with silicon parts. Primary product types include SiC Schottky barrier diodes (SBDs), discrete SiC MOSFETs (planar and trench/groove variants), SiC JFETs (less common), bare die and discrete packaged parts, and integrated SiC power modules (half-bridge, three-level, etc.). These devices are manufactured as wafers (substrate ? epitaxy ? device front-end) and then singulated, qualified and packaged; product portfolios are often segmented by voltage class (e.g., 600 V, 1200 V, 1700–3300 V) and by form factor (bare die for module assembly, discrete TO/Power packages, or fully integrated modules).

SiC power semiconductors are adopted across traction inverters for EVs, on-board chargers and DC–DC converters, fast chargers, renewable-energy (PV/utility) inverters, industrial motor drives, traction/rail, and high-efficiency data center and telecom power supplies. The industry value chain comprises upstream crystal and substrate growers, epitaxial wafer producers, midstream device fabs and IP owners (device process, gate & trench tech), back-end package/module houses, test & qualification labs, and downstream OEM/system integrators (automotive Tier-1s, inverter/OEMs). Major global suppliers include STMicroelectronics, Infineon, Wolfspeed (historically a leader in substrates and materials), ROHM, onsemi and the Japanese groups (Toshiba/Mitsubishi in certain segments), with regional OEMs and Chinese challengers expanding capacity. Market research and industry roadmaps show strong demand

growth (especially for EV traction inverters) and an industry-wide migration to 200 mm SiC wafer manufacturing to reduce unit costs and scale output — a shift already being commercialized by multiple vendors.

Industry status and near-term trends: SiC adoption is accelerating but remains supply-constrained in places because upstream substrate/epi capacity and qualified 200 mm manufacturing are strategic bottlenecks; vendors are investing heavily in 200 mm fabs and vertical integration to lower cost per die and improve yields. System trends include tighter automotive qualification (AEC-Q/functional safety), module-level innovation (parasitic reduction, advanced substrates and cooling), and increasing use of digital qualification/characterization. Commercial demand drivers—EV traction inverters, fast chargers and grid inverters—support multi-year CAGR expectations for SiC content per vehicle and per inverter system, even as individual vendor fortunes vary (notably Wolfspeed has faced major financial restructuring in 2025). Overall, expect continuing multi-year growth for SiC devices, marked by rapid capacity expansion, intensified competition on 200 mm scale-up, and downstream system optimization to capture SiC's efficiency gains.

This report studies the global Silicon Carbide Power Semiconductors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Silicon Carbide Power Semiconductors 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 Power Semiconductors that contribute to its increasing demand across many markets.

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

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

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

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

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

U.S. VS China: Silicon Carbide Power Semiconductors domestic production, consumption, key domestic manufacturers and share

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

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

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

This report profiles key players in the global Silicon Carbide Power Semiconductors 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 Power Semiconductors 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 Power Semiconductors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Silicon Carbide Power Semiconductors Market, Segmentation by Type:

SiC MOSFET Modules

SiC MOSFET Discretes

SiC Diode/SBD

Others (SiC JFETs & FETs)

### Global Silicon Carbide Power Semiconductors 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 Power Semiconductors market?
2. What is the demand of the global Silicon Carbide Power Semiconductors market?
3. What is the year over year growth of the global Silicon Carbide Power Semiconductors market?
4. What is the production and production value of the global Silicon Carbide Power Semiconductors market?
5. Who are the key producers in the global Silicon Carbide Power Semiconductors market?
6. What are the growth factors driving the market demand?

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