

Global SiC Power Modules Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global SiC Power Modules market size is expected to reach \$ 10131 million by 2032, rising at a market growth of 18.7% CAGR during the forecast period (2026-2032).

Silicon Carbide (SiC) power modules are advanced power semiconductor devices that integrate multiple SiC-based components, such as SiC MOSFETs and Schottky Barrier Diodes (SBDs), into a single package to handle high voltage and high current applications with superior efficiency, thermal performance, and switching speed. Compared to conventional silicon-based power modules, SiC modules offer several advantages, including higher breakdown voltage (>1200V), lower on-resistance ($R_{DS(on)}$), faster switching transitions, and the ability to operate at elevated temperatures (up to 200°C or more). These attributes make SiC power modules ideal for demanding applications such as electric vehicle (EV) traction inverters, industrial motor drives, railway traction systems, photovoltaic inverters, wind power converters, uninterruptible power supplies (UPS), and power supplies for data centers and aerospace systems.

By product type, SiC power modules are mainly segmented along two dimensions: voltage class and encapsulation. By voltage, the mainstream categories are 650V-900V, 1200V, and 1700V and above. Among them, 1200V has become the core commercial platform for EV traction inverters, OBC/DC-DC systems and a broad set of high-efficiency industrial power applications, while 1700V-plus products are more concentrated in rail traction, grid-related conversion and high-voltage industrial systems. By encapsulation, the market can be divided into gel-filled/potted modules and molded modules. Both will coexist for a long time, but molded packaging is penetrating more rapidly into automotive and mid-to-high-power applications. On the demand side, EVs remain the strongest growth engine, with additional opportunities in charging infrastructure, industrial motor drives, photovoltaics, energy storage, UPS/data centers,

rail and aerospace.

The global SiC power-module market has evolved from an early stage dominated by a small number of international suppliers into a structure in which European, US and Japanese leaders still hold the lead, while Chinese suppliers are catching up quickly. Global players such as STMicroelectronics, onsemi, Wolfspeed, Bosch, ROHM, Mitsubishi Electric and Fuji Electric continue to benefit from stronger platform definition, automotive qualification capability, reliability track record and broader customer reach. At the same time, Chinese suppliers are improving rapidly, particularly in EV powertrain programs, local customer engagement and molded-module platforms. Regionally, demand is shifting increasingly toward China, Europe retains strong automotive customer relationships and engineering depth, North America remains important in materials and advanced manufacturing, and Japan continues to hold strength in high-reliability and high-voltage industrial niches. With global electric-car sales exceeding 20 million in 2025 and China remaining the world's largest EV market, the downstream demand base is increasingly reinforcing China's role in the SiC module landscape.

The development of the SiC power-module industry is not driven only by device-level performance gains; it is also supported by policies linked to vehicle electrification, energy-efficiency upgrades, new energy storage, semiconductor localization and critical-technology development. China's NEV Industry Development Plan (2021-2035) established a long-term framework for high-quality EV growth; the 2025 Action Plan for the High-Quality Development of New-Type Energy Storage Manufacturing strengthened policy support for safe, reliable and efficient storage-related power electronics; and the 15th Five-Year Plan Outline released in 2026 placed integrated circuits and advanced materials among the key areas for core technology breakthroughs. Against this backdrop, the SiC power-module industry has moved from market introduction into a true ramp-up stage. Within the broader full-SiC module universe, molded modules are among the fastest-growing directions, while traditional potted or gel-filled modules still retain an important role in industrial and high-voltage power conversion.

Over the next several years, the main trajectory of the global SiC power-module industry is likely to follow four lines. First, the 1200V platform will remain the dominant standardized platform across EV and many industrial applications. Second, encapsulation will continue on a dual-track path: traditional gel-filled or potted modules will remain relevant in industrial high-voltage use cases, while molded and transfer-molded modules expand faster in automotive and compact high-efficiency power systems. Third, full-SiC platformization and cost reduction will become central to faster

adoption, as improvements in SiC devices, packaging and supply-chain capability support better yield, lower cost and faster customer qualification. Fourth, EV growth, higher-efficiency energy electronics and regional supply-chain reconfiguration will remain the core long-term demand drivers. The market will still face challenges such as material cost, automotive qualification cycles, manufacturing consistency and pricing pressure, but in terms of growth, technical leverage and strategic

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

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

Highlights and key features of the study

Global SiC Power Modules total production and demand, 2021-2032, (K Units)

Global SiC Power Modules total production value, 2021-2032, (USD Million)

Global SiC Power Modules production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global SiC Power Modules consumption by region & country, CAGR, 2021-2032 & (K Units)

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

Global SiC Power Modules production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global SiC Power Modules production by Voltage, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global SiC Power Modules production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global SiC Power Modules 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, 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 SiC Power Modules market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Voltage, 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 SiC Power Modules Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global SiC Power Modules Market, Segmentation by Voltage:

1200V SiC Module

650?900V SiC Module

1700V SiC Module

2000?2300V SiC Module

3300V and Above SiC Module

Global SiC Power Modules Market, Segmentation by Encapsulation Type:

Molded Package SiC Module

Silicone Gel-filled SiC Module

Global SiC Power Modules Market, Segmentation by Module Type:

HPD/Sixpack

Half-bridge

Others

Global SiC Power Modules 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

Semikron Danfoss

Fuji Electric

Toshiba

CETC 55

WeEn Semiconductors

BASiC Semiconductor

SemiQ

SanRex

Bosch

GE Aerospace

Zhuzhou CRRC Times Semiconductor

China Resources Microelectronics Limited

StarPower

Yangzhou Yangjie Electronic Technology

Guangdong AccoPower Semiconductor

Hangzhou Silan Microelectronics

United Nova Technology (UNT)

InventChip Technology (IVCT)

Leadrive Technology

HAIMOSIC (SHANGHAI)

Suzhou Sko Semiconductor

Shenzhen AST Technology

Suzhou Xizhi Technology

Archimedes Semiconductor (Hefei)

Grecon Semiconductor (Shanghai)

Hebei Sinopack Electronic Technology

Denso

Huawei

GeePak

Hitachi Energy

Minebea Power Semiconductor Device

ZhiXin Semiconductor

MacMic Science & Technology

Key Questions Answered:

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

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