

Global SiC Power Modules Market Growth 2026-2032

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Abstracts

The global SiC Power Modules market size is predicted to grow from US\$ 2764 million in 2025 to US\$ 10213 million in 2032; it is expected to grow at a CAGR of 19.9% from 2026 to 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

LP Information, Inc. (LPI) ' newest research report, the "SiC Power Modules Industry Forecast" looks at past sales and reviews total world SiC Power Modules sales in 2025, providing a comprehensive analysis by region and market sector of projected SiC Power Modules sales for 2026 through 2032. With SiC Power Modules sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world SiC Power Modules industry.

This Insight Report provides a comprehensive analysis of the global SiC Power Modules landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on SiC Power Modules portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global SiC Power Modules market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for SiC Power Modules and breaks down the forecast by Voltage, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global SiC Power Modules.

This report presents a comprehensive overview, market shares, and growth opportunities of SiC Power Modules market by product type, application, key manufacturers and key regions and countries.

Segmentation by Voltage:

1200V SiC Module

650-900V SiC Module

1700V SiC Module

2000?2300V SiC Module

3300V and Above SiC Module

Segmentation by Encapsulation Type:

Molded Package SiC Module

Silicone Gel-filled SiC Module

Segmentation by Module Type:

HPD/Sixpack

Half-bridge

Others

Segmentation by Application:

Automotive & EV/HEV

EV Charging

Industrial Motor/Drive

PV, Energy Storage, Wind Power

UPS, Data Center & Server

Rail Transport

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global SiC Power Modules market?

What factors are driving SiC Power Modules market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do SiC Power Modules market opportunities vary by end market size?

How does SiC Power Modules break out by Voltage, by Application?

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