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Global Silicon Carbide Power Chip Market Growth 2025-2031

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Abstracts

The global Silicon Carbide Power Chip market size is predicted to grow from US$ 5883 million in 2025 to US$ 18560 million in 2031; it is expected to grow at a CAGR of 21.1% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

Silicon Carbide (SiC) power chips are advanced semiconductor devices built on SiC substrates, leveraging their wide bandgap (3.2 eV), ultra-high breakdown field (2.8 MV/cm), and exceptional thermal conductivity (4.9 W/cm·K) to deliver unparalleled performance in high-voltage, high-frequency, and high-temperature applications. Unlike traditional silicon-based chips, SiC devices exhibit ultra-low on-resistance (RDS(on) The global SiC power semiconductor market is experiencing rapid growth, driven by the increasing demand for energy-efficient and high-performance power electronics. Technological advancements, such as the development of larger SiC wafers (transitioning from 6-inch to 8-inch) and improved packaging techniques, are enhancing device performance and reducing costs. As industries continue to prioritize energy efficiency and sustainability, SiC power chips are poised to play a pivotal role in the evolution of next-generation power systems across various sectors.

LP Information, Inc. (LPI) ' newest research report, the “Silicon Carbide Power Chip Industry Forecast” looks at past sales and reviews total world Silicon Carbide Power Chip sales in 2024, providing a comprehensive analysis by region and market sector of projected Silicon Carbide Power Chip sales for 2025 through 2031. With Silicon Carbide Power Chip sales broken down by region, market sector and sub-sector, this report

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provides a detailed analysis in US$ millions of the world Silicon Carbide Power Chip industry.

This Insight Report provides a comprehensive analysis of the global Silicon Carbide Power Chip 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 Silicon Carbide Power Chip portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Silicon Carbide Power Chip market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Silicon Carbide Power Chip and breaks down the forecast by Type, 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 Silicon Carbide Power Chip.

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

Segmentation by Type:

SiC MOSFET Modules

SiC MOSFET Discretes

SiC Diode/SBD

Segmentation by Application:

Automotive & EV/HEV

EV Charging

Industrial Motor/Drive

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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

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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)

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Mitsubishi Electric (Vincotech)

Semikron Danfoss

Fuji Electric

Navitas (GeneSiC)

Toshiba

Qorvo (UnitedSiC)

San'an Optoelectronics

Littelfuse (IXYS)

CETC 55

WeEn Semiconductors

BASiC Semiconductor

SemiQ

Diodes Incorporated

SanRex

Alpha & Omega Semiconductor

Bosch

KEC Corporation

PANJIT Group

Nexperia

Vishay Intertechnology

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Zhuzhou CRRC Times Electric

China Resources Microelectronics Limited

StarPower

Yangzhou Yangjie Electronic Technology

Guangdong AccoPower Semiconductor

Changzhou Galaxy Century Microelectronics

Hangzhou Silan Microelectronics

Cissoid

SK powertech

InventChip Technology

Hebei Sinopack Electronic Technology

Oriental Semiconductor

Jilin Sino-Microelectronics

PN Junction Semiconductor (Hangzhou)

United Nova Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Silicon Carbide Power Chip market?
What factors are driving Silicon Carbide Power Chip market growth, globally and by region?
Which technologies are poised for the fastest growth by market and region?
How do Silicon Carbide Power Chip market opportunities vary by end market size?

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How does Silicon Carbide Power Chip break out by Type, by Application?

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