

Global Automotive Silicon Carbide Technology Market Growth (Status and Outlook) 2026-2032

<https://marketpublishers.com/r/G0CAF6BFD0CBEN.html>

Date: July 2026

Pages: 108

Price: US\$ 3,660.00 (Single User License)

ID: G0CAF6BFD0CBEN

Abstracts

The global Automotive Silicon Carbide Technology market size is predicted to grow from US\$ million in 2025 to US\$ million in 2032; it is expected to grow at a CAGR of % from 2026 to 2032.

Silicon Carbide (SiC) is a game-changer in automotive technology, particularly for EVs and HEVs.

SiC devices can operate at higher temperatures and switching frequencies, resulting in significantly lower energy losses within power electronics. This translates to: extended driving range for EVs. and improved fuel efficiency for HEVs.

United States market for Automotive Silicon Carbide Technology is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Automotive Silicon Carbide Technology is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Automotive Silicon Carbide Technology is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Automotive Silicon Carbide Technology players cover Wolfspeed, STMicroelectronics, Infineon Technologies AG, Mitsubishi Electric Corporation, ROHM Co., Ltd, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Automotive Silicon Carbide Technology 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 Automotive Silicon Carbide Technology.

This report presents a comprehensive overview, market shares, and growth opportunities of Automotive Silicon Carbide Technology market by product type, application, key players and key regions and countries.

Segmentation by Type:

Power Electronics

On-Board Chargers

Inverters

Others

Segmentation by Application:

BEV

PHEV

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 analyzing the company's coverage, product portfolio, its market penetration.

Wolfspeed

STMicroelectronics

Infineon Technologies AG

Mitsubishi Electric Corporation

ROHM Co., Ltd

ABB Switzerland Ltd

Nexperia (Netherlands)

Onsemi

GeneSiC Semiconductor Inc

Microchip Technology Inc

Toshiba

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