

Global Automotive Full-SiC Power Module Market Growth 2024-2030

<https://marketpublishers.com/r/GA24433AFEC5EN.html>

Date: July 2024

Pages: 86

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

ID: GA24433AFEC5EN

Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

An automotive Full-SiC (silicon carbide) power module is a high-performance electronic component used in electric and hybrid vehicles to control and convert electrical energy with superior efficiency and thermal performance compared to traditional silicon-based modules. Full-SiC power modules leverage the unique properties of silicon carbide, such as higher breakdown voltage, higher thermal conductivity, and lower on-resistance, enabling them to operate at higher temperatures and switching frequencies. This results in reduced energy losses, improved power density, and more compact and lightweight power electronics systems, which are critical for the automotive industry's push towards more efficient and powerful electric drivetrains. These modules are crucial for applications such as inverters, converters, and onboard chargers, contributing to enhanced vehicle performance, extended driving range, and overall energy efficiency.

The global Automotive Full-SiC Power Module market size is projected to grow from US\$ million in 2024 to US\$ million in 2030; it is expected to grow at a CAGR of % from 2024 to 2030.

LP Information, Inc. (LPI) ' newest research report, the "Automotive Full-SiC Power Module Industry Forecast" looks at past sales and reviews total world Automotive Full-SiC Power Module sales in 2023, providing a comprehensive analysis by region and market sector of projected Automotive Full-SiC Power Module sales for 2024 through 2030. With Automotive Full-SiC Power Module sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Automotive Full-SiC Power Module industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Automotive Full-SiC Power Module 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 Full-SiC Power Module.

United States market for Automotive Full-SiC Power Module is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

China market for Automotive Full-SiC Power Module is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

Europe market for Automotive Full-SiC Power Module is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

Global key Automotive Full-SiC Power Module players cover Mitsubishi Electric, ROHM Semiconductor, BASiC Semiconductor, Semikron Danfoss, Fuji Electric, etc. In terms of revenue, the global two largest companies occupied for a share nearly

% in 2023.

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

Segmentation by Type:

Half-Bridge Module

Full-Bridge Module

Segmentation by Application:

Passenger Vehicle

Commercial Vehicle

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.

Mitsubishi Electric

ROHM Semiconductor

BASiC Semiconductor

Semikron Danfoss

Fuji Electric

Cree

Starpower

ZINSIGHT Technology

E-bian

Key Questions Addressed in this Report

What is the 10-year outlook for the global Automotive Full-SiC Power Module market?

What factors are driving Automotive Full-SiC Power Module market growth, globally and by region?

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

How do Automotive Full-SiC Power Module market opportunities vary by end market size?

How does Automotive Full-SiC Power Module break out by Type, by Application?

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