

Global Automotive Full-SiC Power Module Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

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.

According to our (Global Info Research) latest study, the global Automotive Full-SiC Power Module market size was valued at US\$ million in 2023 and is forecast to a readjusted size of USD million by 2030 with a CAGR of %during review period.

This report is a detailed and comprehensive analysis for global Automotive Full-SiC Power Module market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2024, are provided.

Key Features:

Global Automotive Full-SiC Power Module market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2019-2030

Global Automotive Full-SiC Power Module market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2019-2030

Global Automotive Full-SiC Power Module market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2019-2030

Global Automotive Full-SiC Power Module market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2019-2024

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Automotive Full-SiC Power Module

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Automotive Full-SiC Power Module market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Mitsubishi Electric, ROHM Semiconductor, BASiC Semiconductor, Semikron Danfoss, Fuji Electric, Cree, Starpower, ZINSIGHT Technology, E-bian, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Automotive Full-SiC Power Module market is split by Type and by Application. For the

period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Half-Bridge Module

Full-Bridge Module

Market segment by Application

Passenger Vehicle

Commercial Vehicle

Major players covered

Mitsubishi Electric

ROHM Semiconductor

BASiC Semiconductor

Semikron Danfoss

Fuji Electric

Cree

Starpower

ZINSIGHT Technology

E-bian

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Automotive Full-SiC Power Module product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automotive Full-SiC Power Module, with price, sales quantity, revenue, and global market share of Automotive Full-SiC Power Module from 2019 to 2024.

Chapter 3, the Automotive Full-SiC Power Module competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Automotive Full-SiC Power Module breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2019 to 2024. and Automotive Full-SiC Power Module market forecast, by regions, by Type, and by Application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces

analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Automotive Full-SiC Power Module.

Chapter 14 and 15, to describe Automotive Full-SiC Power Module sales channel, distributors, customers, research findings and conclusion.

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