

Global Automotive Power Modules Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Automotive Power Modules market size will reach 2,742.17 Million USD in 2025 and is projected to reach 7,432.98 Million USD by 2032, with a CAGR of 15.31% (2025-2032). Notably, the China Automotive Power Modules market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

Automotive power modules are electronic devices used in the automotive industry to control and regulate the flow of current between the car battery and various electrical systems in the vehicle. Power modules are typically comprised of a solid-state switching device such as a MOSFET (Metal Oxide Semiconductor Field-Effect Transistor) or IGBT (Insulated Gate Bipolar Transistor), as well as other components such as diodes and resistors. By maintaining a consistent flow of power to the various electrical systems in the car, power modules help ensure reliable operation and optimal performance of the vehicle. They are widely used in applications such as electric power steering, engine and transmission control, and lighting systems.

The major global manufacturers of Automotive Power Modules include Infineon, Mitsubishi Electric, Fuji Electric, ON Semiconductor, STMicroelectronics, Hitachi Power Semiconductor Device, Semikron, Danfoss, ROHM, BYD, Starpower Semiconductor, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market

share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Automotive Power Modules. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Automotive Power Modules market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Automotive Power Modules market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Automotive Power Modules industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Automotive Power Modules Include:

Infineon

Mitsubishi Electric

Fuji Electric

ON Semiconductor

STMicroelectronics

Hitachi Power Semiconductor Device

Semikron

Danfoss

ROHM

BYD

Starpower Semiconductor

Automotive Power Modules Product Segment Include:

IGBT Modules

SiC Modules

Automotive Power Modules Product Application Include:

Battery Electric Vehicles (BEV)

Plug-in Hybrid Electric Vehicles (PHEV)

Chapter Scope

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