

# Global Intelligent Power Modules (IPM) Competitive Landscape Professional Research Report 2025

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## Abstracts

### Market Overview

According to DIResearch's in-depth investigation and research, the global Intelligent Power Modules (IPM) market size will reach 2,519.79 Million USD in 2025 and is projected to reach 4,025.10 Million USD by 2032, with a CAGR of 6.92% (2025-2032). Notably, the China Intelligent Power Modules (IPM) 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

Intelligent Power Modules (IPM) are advanced semiconductor devices designed to integrate power electronics components into a single module for efficient and compact power control applications. These modules typically include power devices such as insulated gate bipolar transistors (IGBTs), diodes, and gate drivers, along with protection and control circuits. What sets intelligent power modules apart is the incorporation of intelligent features like fault detection, temperature sensing, and current sensing, enabling self-monitoring and protection capabilities. IPMs are commonly used in motor drives, inverters, and other power control applications, providing a modular and intelligent solution that simplifies design, improves reliability, and enhances the overall performance of power electronic systems. The integration of intelligence in these modules contributes to more efficient power management and facilitates the development of advanced and reliable electronic devices.

The major global manufacturers of Intelligent Power Modules (IPM) include Mitsubishi Electric, Onsemi, Infineon, Fuji Electric, Semikron Danfoss, STMicroelectronics, ROHM,

Hangzhou Silan Microelectronics, Shenzhen Invsemi Technology, BYD, Jilin Sino-Microelectronics, 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 Intelligent Power Modules (IPM). 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 Intelligent Power Modules (IPM) 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 Intelligent Power Modules (IPM) 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 Intelligent Power Modules (IPM) 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 Intelligent Power Modules (IPM) Include:

Mitsubishi Electric

Onsemi

Infineon

Fuji Electric

Semikron Danfoss

STMicroelectronics

ROHM

Hangzhou Silan Microelectronics

Shenzhen Invsemi Technology

BYD

Jilin Sino-Microelectronics

Intelligent Power Modules (IPM) Product Segment Include:

IGBT-IPM

MOSFET-IPM

Intelligent Power Modules (IPM) Product Application Include:

Automotive

Household Appliances

New Energy Power Generation

Industrial Control

Rail Transit

Others

## **Chapter Scope**

Chapter 1: Product Research Range, Product Types and Applications, Market Overview, Market Situation and Trends

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