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Global Intelligent Power Module (IPM) for Home Appliance Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global Intelligent Power Module (IPM) for Home Appliance market size is expected to reach $ 565.7 million by 2029, rising at a market growth of 8.0% CAGR during the forecast period (2023-2029).

The market for Intelligent Power Modules (IPMs) for home appliances was experiencing growth driven by the increasing adoption of energy-efficient appliances, the demand for smart appliances, and the ongoing advancements in semiconductor technology. IPMs are becoming a crucial component in home appliances that require motor control, as they offer benefits in terms of efficiency, reliability, and integration.

Key trends and factors influencing the IPM market for home appliances included:

Energy Efficiency and Sustainability: The growing emphasis on energy efficiency and environmental sustainability was driving the demand for appliances that optimize energy consumption. IPMs play a role in achieving higher efficiency levels and reducing power wastage in motor-driven appliances.

Smart Home Integration: The trend towards smart homes and IoT-connected appliances was driving the integration of IPMs with microcontrollers and communication capabilities, allowing for remote control, monitoring, and energy management of home appliances.

Advanced Motor Control: IPMs provide advanced motor control capabilities, enabling appliances to offer variable speed control, smooth starting and stopping, and improved performance.

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Appliance Upgrades and Modernization: As consumers seek to replace older appliances with more efficient and feature-rich models, manufacturers are incorporating IPMs to enhance appliance functionality.

Cost-Effectiveness: IPMs offer integrated solutions that reduce the need for additional components, thus saving costs in manufacturing, assembly, and maintenance.

Regulations and Standards: Energy efficiency regulations and standards for home appliances in various regions were contributing to the adoption of technologies, including IPMs, that help meet these requirements.

Increasing Appliance Variety: IPMs were being integrated into a broader range of home appliances beyond traditional white goods, including kitchen appliances, HVAC systems, and more.

Global Appliance Market Growth: The global home appliance market was expanding due to population growth, urbanization, rising income levels, and consumer preferences for modern appliances.

Competition and Innovation: Semiconductor manufacturers and module suppliers were continuously innovating to provide IPMs with better performance, more features, and improved reliability.

Supply Chain Disruptions: The COVID-19 pandemic and related supply chain disruptions impacted the semiconductor industry, potentially influencing availability and pricing of IPMs.

Localization and Customization: In some cases, local regulations and preferences drove the need for customized IPM solutions that catered to specific regional requirements.

An Intelligent Power Module (IPM) is a compact and integrated semiconductor device designed for controlling and driving high-power electrical loads, such as motors, in various applications, including home appliances. IPMs combine several components, such as power transistors, gate drivers, protection circuits, and often a microcontroller, into a single package. This integration simplifies the design process, reduces the need for external components, and enhances the overall efficiency and reliability of the system.

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IPMs find extensive use in home appliances, especially those with motor-driven components, due to their ability to efficiently control and manage power consumption.

This report studies the global Intelligent Power Module (IPM) for Home Appliance production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Intelligent Power Module (IPM) for Home Appliance, and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Intelligent Power Module (IPM) for Home Appliance that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Intelligent Power Module (IPM) for Home Appliance total production and demand, 2018-2029, (K Units)

Global Intelligent Power Module (IPM) for Home Appliance total production value, 2018-2029, (USD Million)

Global Intelligent Power Module (IPM) for Home Appliance production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global Intelligent Power Module (IPM) for Home Appliance consumption by region & country, CAGR, 2018-2029 & (K Units)

U.S. VS China: Intelligent Power Module (IPM) for Home Appliance domestic production, consumption, key domestic manufacturers and share

Global Intelligent Power Module (IPM) for Home Appliance production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (K Units)

Global Intelligent Power Module (IPM) for Home Appliance production by Type, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global Intelligent Power Module (IPM) for Home Appliance production by Application production, value, CAGR, 2018-2029, (USD Million) & (K Units).

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This reports profiles key players in the global Intelligent Power Module (IPM) for Home Appliance market based on the following parameters – company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Mitsubishi Electric, ON Semi, Infineon Technologies, Fuji Electric, Semikron Danfoss, ROHM, STMicroelectronics, Hangzhou Silan and Jilin Sino-Microelectronics, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Intelligent Power Module (IPM) for Home Appliance market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Units) and average price (US$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Intelligent Power Module (IPM) for Home Appliance Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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Global Intelligent Power Module (IPM) for Home Appliance Market, Segmentation by Type

IGBT Based IPM

MOSFET Based IPM

Global Intelligent Power Module (IPM) for Home Appliance Market, Segmentation by Application

White Goods

Black Appliances

Kitchen Appliances

Small Home Appliances

Companies Profiled:

Mitsubishi Electric

ON Semi

Infineon Technologies

Fuji Electric

Semikron Danfoss

ROHM

STMicroelectronics

Hangzhou Silan

Jilin Sino-Microelectronics

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Key Questions Answered

1. How big is the global Intelligent Power Module (IPM) for Home Appliance market?

2. What is the demand of the global Intelligent Power Module (IPM) for Home Appliance market?

3. What is the year over year growth of the global Intelligent Power Module (IPM) for Home Appliance market?

4. What is the production and production value of the global Intelligent Power Module (IPM) for Home Appliance market?

5. Who are the key producers in the global Intelligent Power Module (IPM) for Home Appliance market?

6. What are the growth factors driving the market demand?

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