

Global High-voltage MOSFET Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global High-voltage MOSFET market size was valued at USD 2060 million in 2023 and is forecast to a readjusted size of USD 3592.3 million by 2030 with a CAGR of 8.3% during review period.

High-voltage MOSFET is a type of MOSFET which operates at a voltage above 200 volts. MOSFETs are integrated into a system depending on the voltage at which they are operating, thus, the MOSFETs are selected on the same basis. High-voltage MOSFETs are used mainly for industrial applications and in the area which require high power amplification and switching.

Global key players of MOSFET transistors include Infineon, onsemi, STMicroeletronics, Toshiba, etc. Global top four manufacturers hold a share over 37%. The key players are mainly located in North America, Europe, Japan, China, Southeast, India and Taiwan (China). In terms of product, low and medium voltage MOSFET the largest segment, with a share over 84%. And in terms of application, the largest application is automotive, with a share over 27%.

The Global Info Research report includes an overview of the development of the Highvoltage MOSFET industry chain, the market status of Automotive (500-800V MOSFET, 800-1000V MOSFET), Industrial (500-800V MOSFET, 800-1000V MOSFET), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of High-voltage MOSFET.

Regionally, the report analyzes the High-voltage MOSFET markets in key regions. North America and Europe are experiencing steady growth, driven by government



initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global High-voltage MOSFET market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the High-voltage MOSFET market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the High-voltage MOSFET industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (M Units), revenue generated, and market share of different by Type (e.g., 500-800V MOSFET, 800-1000V MOSFET).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the High-voltage MOSFET market.

Regional Analysis: The report involves examining the High-voltage MOSFET market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the High-voltage MOSFET market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to High-voltage MOSFET:

Company Analysis: Report covers individual High-voltage MOSFET manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.



Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards High-voltage MOSFET This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Automotive, Industrial).

Technology Analysis: Report covers specific technologies relevant to High-voltage MOSFET. It assesses the current state, advancements, and potential future developments in High-voltage MOSFET areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the High-voltage MOSFET market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

High-voltage MOSFET 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.

Market segment by Type

500-800V MOSFET

800-1000V MOSFET

Above 1000V

Market segment by Application

Automotive

Industrial

Telecom

Global High-voltage MOSFET Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030



New Energy & Power Grid

Others

Major players covered

Infineon

onsemi

STMicroelectronics

Toshiba

Nexperia

Vishay Intertechnology

Renesas Electronics

Alpha & Omega Semiconductor

Rohm

Microchip

MagnaChip

Fuji Electric

Diodes Incorporated

Littelfuse (IXYS)

Sanken Electric

KEC Corporation

Global High-voltage MOSFET Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030



Texas Instruments

Mitsubishi Electric (Vincotech)

Wolfspeed

PANJIT Group

Unisonic Technologies (UTC)

Niko Semiconductor

China Resources Microelectronics Limited

Hangzhou Silan Microelectronics

Yangzhou Yangjie Electronic Technology

NCEPOWER

Jilin Sino-Microelectronics

Oriental Semiconductor

Jiangsu Jiejie Microelectronics

OmniVision Technologies

Lonten Semiconductor

Sinopower

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 High-voltage MOSFET product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of High-voltage MOSFET, with price, sales, revenue and global market share of High-voltage MOSFET from 2019 to 2024.

Chapter 3, the High-voltage MOSFET competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the High-voltage MOSFET 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 application, with sales market share and growth rate by type, 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 2017 to 2023.and High-voltage MOSFET market forecast, by regions, type and 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 High-voltage MOSFET.

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Chapter 14 and 15, to describe High-voltage MOSFET sales channel, distributors, customers, research findings and conclusion.



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