

Global High Voltage Power MOSFETs Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global High Voltage Power MOSFETs market size is expected to reach \$ 8193 million by 2032, rising at a market growth of 5.3% CAGR during the forecast period (2026-2032).

High Voltage Power MOSFETs are discrete power switching devices used on higher-voltage DC buses or rectified high-voltage buses, primarily to enable high-frequency switching, energy transfer, efficiency improvement, thermal loss control, and system size reduction in primary-side power conversion. Based on the official product pages reviewed in this round, the mainstream silicon high-voltage MOSFET range broadly spans 400V to 950V and can extend further to 1700V. The dominant technology route is centered on Super Junction, while Planar and Quasi-Plane-Junction structures also coexist. Competition is focused on low RDS(on), low Qg, low Qrr, fast switching, low noise, EMI control, avalanche ruggedness, and package thermal capability. At the system level, these devices are typically placed in PFC stages, SMPS primary stages, DC-DC stages, LLC stages, half-bridge stages, or inverter legs, directly affecting efficiency, temperature rise, size, and BOM cost. Main applications include SMPS, PFC, server and telecom power supplies, adapters and chargers, lighting, motor drives, inverter systems, and selected industrial and new-energy power scenarios. Delivery forms usually include single-SKU pages, family pages, and parametric selector pages, with package coverage across both SMT and THT forms.

From a technology perspective, High Voltage Power MOSFETs remain one of the most mature, standardized, and cost-efficient foundational devices in offline power conversion and medium-to-high-voltage switching. Official product pages show that the technology center of the market has clearly shifted toward Super Junction architectures, but the category has not converged into a single path. Infineon emphasizes broad

voltage coverage, package diversity, and ease-of-design balance in its 500V-950V family. onsemi positions SupreMOS as a high-voltage Super Junction platform with lower specific on-resistance, stronger switching performance, and ruggedness. ROHM highlights the balance between lower conduction loss and fast recovery in PrestoMOS, while Fuji Electric maintains a Quasi-Plane-Junction route focused on low loss, low noise, controllable dv/dt, and strong avalanche durability. As a result, future competition in this market will continue to center on platform capability, parameter balance, and system-level fit rather than voltage rating alone.

From the demand side, the strongest driver is not a single end market, but the simultaneous push from multiple industries toward higher efficiency, higher power density, and lower standby loss in primary-side power conversion. ST explicitly positions high-voltage MOSFETs in SMPS, lighting, DC-DC, motor control, and automotive applications. onsemi clearly targets PFC, server and telecom power, and industrial power, while ROHM highlights motors, inverters, totem-pole PFC, LLC, and solar-related scenarios. At the same time, external efficiency requirements remain a structural growth driver. The U.S. DOE has long maintained energy-conservation standards for external power supplies, the EU updated its ecodesign framework for external power supplies in 2025, and 80 PLUS introduced the Ruby efficiency tier for data-center power systems in 2025. Combined with Infineon's public confidence in continued AI power-supply growth into 2026, this suggests that server and telecom power, high-efficiency adapters and chargers, industrial power systems, and new-energy supporting power will form the most durable growth base for High Voltage Power MOSFETs.

From the perspective of competition and regional distribution, High Voltage Power MOSFETs remain a mature power-discrete market where leading suppliers from Europe, the United States, and Japan continue to coexist with regional Asian manufacturers. Western and Japanese companies still hold advantages in platform technology, brand power, reliability systems, and higher-end industrial and server applications, while suppliers from South Korea, Taiwan, and Mainland China are accelerating portfolio expansion in the mainstream 600V-800V range. PANJIT already defines its high-voltage MOSFET portfolio as 400V-1000V and places Super Junction products into industrial power, server power, and consumer power scenarios. LRC has established a dedicated high-voltage power MOSFET product page, and JSCJ has built a distinct Super Junction MOS entry on its official site. This indicates that the regional supply chain is moving beyond pure manufacturing and further into productization and platformization. Over the next several years, the market is more likely to show a combination of global specialization, regional substitution, and structural upgrading than a simple one-way replacement pattern.

This report studies the global High Voltage Power MOSFETs production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High Voltage Power MOSFETs and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of High Voltage Power MOSFETs that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global High Voltage Power MOSFETs total production and demand, 2021-2032, (Million Units)

Global High Voltage Power MOSFETs total production value, 2021-2032, (USD Million)

Global High Voltage Power MOSFETs production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global High Voltage Power MOSFETs consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: High Voltage Power MOSFETs domestic production, consumption, key domestic manufacturers and share

Global High Voltage Power MOSFETs production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global High Voltage Power MOSFETs production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global High Voltage Power MOSFETs production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global High Voltage Power MOSFETs 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 STMicroelectronics, Vishay, Littelfuse, Toshiba, Fuji Electric, Infineon, onsemi, ROHM, Renesas Electronics, Alpha and Omega Semiconductor Limited, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World High Voltage Power MOSFETs market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global High Voltage Power MOSFETs Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High Voltage Power MOSFETs Market, Segmentation by Type:

700V-1700V

1700V-4500V

Global High Voltage Power MOSFETs Market, Segmentation by Package Mounting Form:

Through-Hole

Surface-Mount

Global High Voltage Power MOSFETs Market, Segmentation by Device Structure:

Planar MOSFET

Super Junction MOSFET

Quasi-Plane-Junction MOSFET

Global High Voltage Power MOSFETs Market, Segmentation by Application:

Consumer Electronics

Telecom & Data Center

Industrial & Automation

Automotive & EV

Renewable & New Energy

Companies Profiled:

STMicroelectronics

Vishay

Littelfuse

Toshiba

Fuji Electric

Infineon

onsemi

ROHM

Renesas Electronics

Alpha and Omega Semiconductor Limited

Diodes Incorporated

Shindengen Electric Manufacturing Co., Ltd.

KEC Corporation

Magnachip Semiconductor Corporation

PANJIT International Inc.

Yangzhou Yangjie Electronic Technology Co., Ltd.

Leshan Radio Company, Ltd.

Jiangsu Changjing Electronics Technology Co., Ltd.

Key Questions Answered:

1. How big is the global High Voltage Power MOSFETs market?
2. What is the demand of the global High Voltage Power MOSFETs market?
3. What is the year over year growth of the global High Voltage Power MOSFETs market?
4. What is the production and production value of the global High Voltage Power MOSFETs market?
5. Who are the key producers in the global High Voltage Power MOSFETs market?
6. What are the growth factors driving the market demand?

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