

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

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Abstracts

The global Low Voltage Power MOSFETs market size is expected to reach \$ 7530 million by 2032, rising at a market growth of 4.8% CAGR during the forecast period (2026-2032).

Low-voltage power MOSFETs are a group of silicon-based power switching devices centered on power field-effect transistor technology, with the core research scope usually focused on products rated at 100V and below, while some suppliers also extend the low- to mid-voltage range to 120V to 150V and even up to 200V. Their main role is to deliver higher efficiency, greater power density, and stronger system reliability in DC conversion, synchronous rectification, load switching, battery protection, and motor drive applications through lower on-resistance, lower gate charge, better thermal behavior, and more compact packaging. Official product pages show that these devices are already widely used in PoL and VRM, motherboards and notebooks, adapters and chargers, server and telecom power supplies, lithium battery protection, industrial and robotic motor control, and automotive 12V to 48V auxiliary electrical systems. The most common delivery format is still the discrete single device, while the market is also expanding toward dual MOSFETs, automotive-grade versions, and platform-based product families optimized around packages such as DFN, LFPK, PowerFLAT, H2PAK, and TOLL. As a result, competition is no longer defined by voltage coverage alone, but by the combined optimization of RDS(on), Qg, FOM, SOA, AEC-Q101 qualification, and process and packaging capabilities such as wettable flanks, copper clip bonding, and thin-wafer technologies. In essence, this segment is a foundational power semiconductor platform for high-efficiency power conversion and low-voltage electric-drive systems.

The competitive logic of the low-voltage power MOSFET industry has shifted from an

earlier stage centered mainly on voltage coverage and single-point on-resistance comparisons toward a platform-based competition focused on system efficiency, power density, thermal management, EMI, and reliability. Multiple official product pages now position low RDS(on), low Qg, wide SOA, and advanced packaging as simultaneous value propositions, which means customers no longer regard these devices as pure commodities but as integral parts of their power topology, miniaturization strategy, and lifetime targets. Infineon defines products up to 100V as general-purpose low- to medium-power MOSFETs and emphasizes low charge and diverse package options. ST has already pushed 20V to 30V devices to the 1.2 m² class, onsemi highlights higher power density and lower total system cost around its T10 platform, while Nexperia, AOS, KEC, and SemiHow continue to push LFPACK, AlphaSGT, SGT, and Split Gate Trench platforms forward. This indicates that the companies that will truly differentiate themselves are not those that merely have low-voltage MOSFETs in their catalogs, but those that can deliver a complete device platform with lower loss, faster switching, stronger thermal behavior, more stable supply, and higher reliability within the same voltage window.

Demand is now being driven by multiple engines at once. Traditional consumer electronics and adapter markets still provide a stable shipment base, but the more important growth vectors are the simultaneous expansion of server power supplies, AI computing infrastructure, automotive low-voltage electrical systems, robotics and industrial automation, battery protection, and light electrification equipment. Official pages from Toshiba, Infineon, Nexperia, AOS, and China Resources Microelectronics already identify server power, telecom power, BMS, chargers, motor drives, and vehicle auxiliary systems as key target areas. External policy support is reinforcing this trend as well. China continued its vehicle replacement and scrappage incentives for new energy vehicles in 2025 and is also promoting green data centers and power-computing coordination. Meanwhile, the IEA expects global electric car sales to exceed 20 million in 2025 and forecasts global electricity demand growth of 3.6% per year from 2026 to 2030, with data centers, electric vehicles, and air conditioning among the major drivers. In other words, the growth logic of low-voltage power MOSFETs is no longer tied to a single terminal market, but is being lifted simultaneously by transport electrification, computing expansion, and energy-efficiency upgrades across equipment categories.

From a competitive standpoint, the low-voltage power MOSFET market is developing a clearer hierarchy. Global leaders still retain advantages in process generations, packaging platforms, automotive qualification, and global channel reach, especially in high-performance, high-reliability, and large-account programs, while Asian regional suppliers are accelerating their catch-up through manufacturing depth, packaging

capability, and faster local response in cost-performance-sensitive and niche scenarios. Japanese suppliers remain strong in automotive and industrial reliability, European suppliers are stronger in high-frequency, high-efficiency platforms and system application know-how, U.S. suppliers carry notable influence in server, power, and automotive platforms, and suppliers from Mainland China, Taiwan, and South Korea are steadily filling out their portfolios in SGT, DFN and TOLL packaging, low- to mid-voltage automotive-grade devices, and power supply applications. Based on the verified company distribution and the application directions shown on official product pages, production will likely remain concentrated in East Asia, Europe, and the United States, while demand growth will lean more heavily toward China and the broader Asian electrification chain, Europe's automotive electrification upgrade, and North America's cloud and industrial power markets. As long as AI power systems, 48V vehicle architectures, industrial automation, and high-efficiency charging continue to advance, this segment is likely to remain in an upward part of the cycle through 2025 and 2026.

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

This report is a detailed and comprehensive analysis of the world market for Low 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 Low Voltage Power MOSFETs that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Low Voltage Power MOSFETs total production and demand, 2021-2032, (K Units)

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

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

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

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

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

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

Global Low Voltage Power MOSFETs production by Application, production, value,

CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Low 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, Inc., Toshiba Electronic Devices & Storage Corporation, Fuji Electric, Infineon, ON Semiconductor, Rohm, Renesas Electronics, Texas Instruments, 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 Low Voltage Power MOSFETs 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 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Low Voltage Power MOSFETs Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Low Voltage Power MOSFETs Market, Segmentation by Type:

N-Channel

P-Channel

Global Low Voltage Power MOSFETs Market, Segmentation by Rated Drain-Source Voltage:

20V And Below

21?40V

41?60V

61?80V

81?100V

Above 100V

Global Low Voltage Power MOSFETs Market, Segmentation by Package Type:

Through-Hole Power Package

Leaded Surface-Mount Package

Leadless Surface-Mount Package

Global Low Voltage Power MOSFETs Market, Segmentation by Application:

Switch, Buck and Synchronous Rectification

Uninterruptible Power Supplies (UPS)

Small Motor Control

Switch Mode Power Supplies (SMPS)

Power-Over-Ethernet (PoE)

Solar Inverters

Automotive Applications

Companies Profiled:

STMicroelectronics

Vishay

Littelfuse, Inc.

Toshiba Electronic Devices & Storage Corporation

Fuji Electric

Infineon

ON Semiconductor

Rohm

Renesas Electronics

Texas Instruments

Nexperia

Diodes Incorporated

Microchip Technology Inc.

Alpha and Omega Semiconductor Limited

Shindengen Electric Manufacturing Co., Ltd.

KEC Corporation

SemiHow Co., Ltd.

TRinno Technology Co., Ltd.

Advanced Power Electronics Corp.

PANJIT International Inc.

Sinopower Semiconductor Inc.

Potens Semiconductor Corp.

Excelliance MOS Corporation

Unisonic Technologies Co., Ltd.

Yangzhou Yangjie Electronic Technology Co., Ltd.

Jilin Sino-Microelectronics Co., Ltd.

China Resources Microelectronics Limited

Suzhou Good-Ark Electronics Co., Ltd.

Key Questions Answered:

1. How big is the global Low Voltage Power MOSFETs market?
2. What is the demand of the global Low Voltage Power MOSFETs market?
3. What is the year over year growth of the global Low Voltage Power MOSFETs market?
4. What is the production and production value of the global Low Voltage Power

MOSFETs market?

5. Who are the key producers in the global Low Voltage Power MOSFETs market?

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

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