

Global Medium-voltage SGT MOSFET Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G37912A89EFCEN.html>

Date: May 2026

Pages: 98

Price: US\$ 4,480.00 (Single User License)

ID: G37912A89EFCEN

Abstracts

The global Medium-voltage SGT MOSFET market size is expected to reach \$ 4068 million by 2032, rising at a market growth of 8.3% CAGR during the forecast period (2026-2032).

Medium-voltage SGT MOSFET is a power semiconductor designed for medium-voltage applications, combining a shielded gate trench structure with enhanced voltage handling, fast switching capability, and low conduction losses. Its architecture provides improved thermal stability and reliability under demanding operating conditions, making it suitable for automotive powertrains, industrial drives, and energy storage systems. The capacity utilization rate in 2025 was 80%, and the industry's average gross margin was about 30%. In 2025, production was 2.51 billion units and the average price was USD 0.9 per unit. Upstream, key inputs include silicon wafers and photoresist materials, with representative suppliers such as Shin-Etsu Chemical, SUMCO, GlobalWafers, and LG Siltron. The midstream segment encompasses device design, wafer fabrication, trench etching, doping, packaging, and testing, determining switching performance, voltage tolerance, and operational reliability. Downstream applications target automotive, industrial automation, and energy storage, with representative customers including Tesla, BYD, Siemens, Schneider Electric, and CATL.

The market for medium-voltage SGT MOSFETs is shaped by increasing demand for efficient power conversion in automotive, industrial, and energy storage applications. As systems adopt higher voltage architectures and compact inverter designs, components with low conduction loss, high switching speed, and thermal reliability are prioritized. Adoption is influenced by energy efficiency standards, vehicle electrification trends, and industrial automation upgrades. Suppliers that can consistently deliver high-quality devices with predictable performance benefit from long-term design-in opportunities.

The focus on system-level efficiency and reliability suggests that medium-voltage SGT MOSFETs will continue to be critical components in evolving electrification and automation solutions.

This report studies the global Medium-voltage SGT MOSFET production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Medium-voltage SGT MOSFET 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 Medium-voltage SGT MOSFET that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Medium-voltage SGT MOSFET total production and demand, 2021-2032, (Million Units)

Global Medium-voltage SGT MOSFET total production value, 2021-2032, (USD Million)

Global Medium-voltage SGT MOSFET production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Medium-voltage SGT MOSFET consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Medium-voltage SGT MOSFET domestic production, consumption, key domestic manufacturers and share

Global Medium-voltage SGT MOSFET production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Medium-voltage SGT MOSFET production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Medium-voltage SGT MOSFET production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Medium-voltage SGT MOSFET 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 Infineon, ON Semiconductor, China Resources Microelectronics Limited, AOS, Wuxi NCE Power Co.,Ltd., JieJie Microelectronics, Silan Microelectronics, Yangjie Electronic Technology, Hunteck, Oriental Semiconductor, 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 Medium-voltage SGT MOSFET 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 Medium-voltage SGT MOSFET Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Medium-voltage SGT MOSFET Market, Segmentation by Type:

?100V

100V-200V

Global Medium-voltage SGT MOSFET Market, Segmentation by Structure:

Vertical MOSFET

Double Diffused MOS

Others

Global Medium-voltage SGT MOSFET Market, Segmentation by Package:

SOIC Package

TSSOP Package

Others

Global Medium-voltage SGT MOSFET Market, Segmentation by Application:

Automotive Electronics

Industrial Automation

Energy Storage

Others

Companies Profiled:

Infineon

ON Semiconductor

China Resources Microelectronics Limited

AOS

Wuxi NCE Power Co.,Ltd.

JieJie Microelectronics

Silan Microelectronics

Yangjie Electronic Technology

Hunteck

Oriental Semiconductor

Key Questions Answered:

1. How big is the global Medium-voltage SGT MOSFET market?
2. What is the demand of the global Medium-voltage SGT MOSFET market?
3. What is the year over year growth of the global Medium-voltage SGT MOSFET market?
4. What is the production and production value of the global Medium-voltage SGT MOSFET market?
5. Who are the key producers in the global Medium-voltage SGT MOSFET market?
6. What are the growth factors driving the market demand?

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