

Global MOSFET for Charging Pile Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global MOSFET for Charging Pile market size is expected to reach \$ 542 million by 2032, rising at a market growth of 18.2% CAGR during the forecast period (2026-2032). MOSFET for charging pile refers to power MOSFET devices used as the main high-frequency switching elements inside EV charging equipment (AC chargers / DC fast chargers). A MOSFET (metal-oxide-semiconductor field-effect transistor) is a voltage-controlled transistor: applying gate voltage controls the drain-to-source conduction, enabling efficient power switching.

The upstream supply chain starts from semiconductor substrates and processes: silicon (Si) wafers for conventional power MOSFETs (including superjunction technologies) and silicon-carbide (SiC) wafers for high-efficiency/high-power charging architectures, followed by epitaxy, oxidation/gate dielectric formation, doping/implantation, metallization, and wafer test. It then extends to packaging materials and processes (leadframes/copper clips, bond wires, mold compounds, thermal interface materials) and when delivered as power modules?substrates such as DBC/AMB and module assembly.

Downstream, these MOSFETs are designed into the charging pile?s power conversion stages: front-end AC-DC rectification / PFC (e.g., two-level PFC or Vienna rectifier) and isolated DC-DC conversion (often LLC-type resonant stages) to deliver regulated DC to the vehicle battery. They are used by charging power-module makers and charger OEMs to improve efficiency, power density, and thermal management?especially in DC fast-charging architectures where higher power and higher bus voltages are common. In 2025, global sales of MOSFET for charging pile reached approximately 31 million Pcs, with an average global market price of around US\$ 5.2/Pcs. Production capacity varies significantly among manufacturers, with gross profit margins ranging from approximately 30% to 60%.

Demand for MOSFETs in charging piles is fundamentally driven by the combination of

higher charging power density and broader network coverage. As public fast-charging networks expand, operators increasingly optimize for station throughput, lifetime energy loss, and maintenance cost, raising the value of high-efficiency power devices in the overall BOM. In parallel, the migration toward higher-voltage vehicle platforms and higher charge currents pushes charging modules toward higher switching frequencies, smaller magnetics, and more compact thermal designs, reinforcing the need for low-loss MOSFET solutions (both silicon and SiC).

On the technology path, mainstream charger architectures are shifting from diode rectification plus IGBT-based stages toward active PFC and high-frequency isolated DC-DC topologies (e.g., Vienna, totem-pole PFC, LLC). In these designs, MOSFETs are not only the main power switches but also enable efficiency and power-density gains via synchronous rectification and auxiliary stages. SiC MOSFET adoption accelerates particularly in high-power, wide input range, and high ambient-temperature conditions thanks to reduced switching loss and higher junction-temperature headroom, while superjunction silicon MOSFETs remain highly competitive in cost-sensitive and mid-power segments.

Competition is shaped by material capability, packaging/thermal know-how, and reliability qualification. Global leaders retain advantages in SiC substrates, advanced packaging, and certification experience, supporting entry into high-end charger module supply chains. Meanwhile, local suppliers are catching up quickly through supply assurance, faster delivery, and tighter system-level co-optimization, intensifying price pressure. Going forward, key variables include tightening grid-connection and safety requirements, the pace of SiC cost-down and capacity expansion, and utilization economics that feed back into charger system design choices.

This report studies the global MOSFET for Charging Pile production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global MOSFET for Charging Pile total production and demand, 2021-2032, (K Pcs)

Global MOSFET for Charging Pile total production value, 2021-2032, (USD Million)

Global MOSFET for Charging Pile production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs), (based on production site)

Global MOSFET for Charging Pile consumption by region & country, CAGR, 2021-2032 & (K Pcs)

U.S. VS China: MOSFET for Charging Pile domestic production, consumption, key

domestic manufacturers and share

Global MOSFET for Charging Pile production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Pcs)

Global MOSFET for Charging Pile production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

Global MOSFET for Charging Pile production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global MOSFET for Charging Pile 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, Wolfspeed, ROHM, STMicroelectronics, onsemi, Vishay, Toshiba, Alpha and Omega Semiconductor(AOS), Mitsubishi Electric, Renesas, 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 MOSFET for Charging Pile market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Pcs) and average price (US\$/Pcs) 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 MOSFET for Charging Pile Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global MOSFET for Charging Pile Market, Segmentation by Type:

Silicon Power MOSFET

Silicon Carbide MOSFET

Global MOSFET for Charging Pile Market, Segmentation by Drain-Source Voltage:

Low-Voltage MOSFET (

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