

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

<https://marketpublishers.com/r/GE1C15AB8B86EN.html>

Date: January 2026

Pages: 120

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

ID: GE1C15AB8B86EN

Abstracts

The global SiC MOSFET for Charging Pile market size is expected to reach \$ 270 million by 2032, rising at a market growth of 22.3% CAGR during the forecast period (2026-2032).

A SiC MOSFET for a charging pile is a silicon-carbide (SiC) power MOSFET used as a high-voltage, fast-switching, voltage-controlled power switch in EV charging equipment (AC/DC and DC/DC stages). Compared with silicon MOSFETs/IGBTs, SiC MOSFETs enable higher switching frequency with lower switching loss, supporting higher efficiency and power density?key reasons they are increasingly adopted in high-performance charging piles.

Upstream, the core materials and processes start from high-quality SiC single-crystal substrates (wafers), followed by epitaxial drift-layer growth, ion implantation and high-temperature activation, and formation/conditioning of the SiO₂/SiC gate oxide (thermal oxidation plus common post-oxidation treatments such as nitridation). These steps strongly influence threshold stability, reliability, and switching performance; then come metallization, passivation, and packaging into discrete devices or modules suitable for high-power conversion.

Downstream, SiC MOSFETs are typically used in the charging pile?s front-end PFC (often totem-pole PFC) and the isolated DC-DC conversion stage (e.g., LLC/CLLC-type architectures), helping improve efficiency and reduce magnetics/passive size.

In 2025, global sales of SiC MOSFET for a charging pile reached approximately 5.1 million Pcs, with an average global market price of around US\$ 12/Pcs. Production capacity varies significantly among manufacturers, with gross profit margins ranging from approximately 40% to 60%.

The charging-infrastructure market is shifting from ?deployment-driven? to ?efficiency-and-uptime-driven.? As operators increasingly optimize for energy cost, thermal management, and utilization, higher-power, modular, and liquid-cooled architectures

become more common?raising the value of switching efficiency and power density. SiC MOSFETs enable higher-frequency operation with lower switching losses, which can shrink magnetics and cooling hardware, improve thermal headroom, and help maintain strong efficiency under heavy-load and elevated-temperature conditions. At the grid interface, stricter requirements on harmonics, power factor, and EMI also favor advanced topologies where SiC devices provide a practical path to balanced system performance.

Adoption, however, is not purely performance-limited?cost and engineering complexity still matter. SiC designs typically require tighter gate-driving and protection discipline, careful layout to manage parasitics, and more rigorous validation before mass production. The momentum improves as the supply chain matures, more platform-grade reference designs become available, and the total cost of ownership view gains traction?where system-level savings (smaller enclosures, simpler cooling, higher uptime) can justify SiC beyond the very top power tiers.

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

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

Highlights and key features of the study

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

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

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

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

U.S. VS China: SiC MOSFET for Charging Pile domestic production, consumption, key domestic manufacturers and share

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

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

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

This report profiles key players in the global SiC 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, GOODWORK Semiconductor, BYD Semiconductor, China Resources Microelectronics, BASiC Semiconductor, Novus Semiconductors, 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 SiC 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 SiC MOSFET for Charging Pile Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global SiC MOSFET for Charging Pile Market, Segmentation by Type:

Discrete Silicon Carbide MOSFET

Bare Die Silicon Carbide MOSFET

Other

Global SiC MOSFET for Charging Pile Market, Segmentation by Voltage Rating Class:

650V Class

750V Class

1200V Class

1700V Class

2000V Class

Global SiC MOSFET for Charging Pile Market, Segmentation by Qualification Grade:

Industrial Grade

Automotive Grade

General Grade

Global SiC MOSFET for Charging Pile Market, Segmentation by Application:

Residential

Commercial

Companies Profiled:

Infineon

Wolfspeed

ROHM

STMicroelectronics

onsemi

GOODWORK Semiconductor

BYD Semiconductor

China Resources Microelectronics

BASiC Semiconductor

Novus Semiconductors

Suzhou Convert Semiconductor

Sanan IC

Shenzhen SilkMicro Semicon

CoolSemi

Key Questions Answered:

1. How big is the global SiC MOSFET for Charging Pile market?
2. What is the demand of the global SiC MOSFET for Charging Pile market?
3. What is the year over year growth of the global SiC MOSFET for Charging Pile market?
4. What is the production and production value of the global SiC MOSFET for Charging Pile market?
5. Who are the key producers in the global SiC MOSFET for Charging Pile market?
6. What are the growth factors driving the market demand?

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