

Global SiC MOSFET for PFC Circuits Market Growth 2026-2032

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Abstracts

The global SiC MOSFET for PFC Circuits market size is predicted to grow from US\$ 323 million in 2025 to US\$ 765 million in 2032; it is expected to grow at a CAGR of 13.3% from 2026 to 2032.

SiC MOSFET for PFC Circuits is a silicon carbide power switching device designed for power factor correction circuits in high-density server power architectures, enabling high-speed switching, low-loss current regulation, and efficient front-end energy conversion. Compared with silicon-based switching devices or general rectifier devices, its advantages lie in lower switching loss, higher operating frequency, better thermal performance, higher power density, and stronger suitability for high-load server power supplies. In 2025, production was approximately 60 million units and the average price was USD 5.5 per unit. The industry's capacity utilization rate in 2025 was about 85% and the average gross margin was around 33%. Upstream, the key inputs include SiC MOSFETs and packaging materials, with representative suppliers such as Wolfspeed, Infineon Technologies, and Heraeus providing core silicon carbide power devices and advanced packaging materials. The midstream segment focuses on SiC MOSFET device structure design, wafer processing, chip fabrication, gate control optimization, packaging integration, electrical performance testing, thermal reliability verification, and PFC circuit application matching, which together determine switching efficiency, voltage and current endurance, heat dissipation, reliability, and cost competitiveness. Downstream, SiC MOSFET for PFC Circuits is mainly used in GPU server power supplies, general server power supplies, and storage server power supplies.

SiC MOSFET for PFC Circuits will be increasingly shaped by server power supplies that require higher efficiency, faster switching, and stronger thermal control. In GPU server power supplies, its value is concentrated in reducing switching loss, supporting rapid

load response, and sustaining high-power operation. In general server power supplies, it improves front-end conversion efficiency and system reliability. In storage server power supplies, stable switching behavior and long service life are more important for uninterrupted operation. As power architectures become more compact and high-frequency, competition will focus on device loss, voltage endurance, packaging reliability, gate-control optimization, and application validation. Suppliers with strong device engineering and server power matching capability can build deeper customer stickiness.

LP Information, Inc. (LPI) ' newest research report, the "SiC MOSFET for PFC Circuits Industry Forecast" looks at past sales and reviews total world SiC MOSFET for PFC Circuits sales in 2025, providing a comprehensive analysis by region and market sector of projected SiC MOSFET for PFC Circuits sales for 2026 through 2032. With SiC MOSFET for PFC Circuits sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world SiC MOSFET for PFC Circuits industry.

This Insight Report provides a comprehensive analysis of the global SiC MOSFET for PFC Circuits landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on SiC MOSFET for PFC Circuits portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global SiC MOSFET for PFC Circuits market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for SiC MOSFET for PFC Circuits and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global SiC MOSFET for PFC Circuits.

This report presents a comprehensive overview, market shares, and growth opportunities of SiC MOSFET for PFC Circuits market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

600V

650V

1200V

Others

Segmentation by Package:

TO-220

TO-247

Others

Segmentation by Current:

Current

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