

Global SiC Power Devices for Solar Inverter Market Growth 2025-2031

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Abstracts

The global SiC Power Devices for Solar Inverter market size is predicted to grow from US\$ 121 million in 2025 to US\$ 446 million in 2031; it is expected to grow at a CAGR of 24.3% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

Silicon Carbide (SiC) power devices are advanced semiconductor components that leverage SiC's wide bandgap properties to deliver superior performance in high-power applications. In solar inverters, SiC devices—such as MOSFETs and Schottky diodes—offer higher voltage operation, faster switching speeds, and better thermal conductivity compared to traditional silicon-based components. These characteristics enable solar inverters to achieve higher efficiency, reduced energy losses, and more compact designs, making them ideal for residential, commercial, and industrial photovoltaic (PV) systems. SiC technology is particularly beneficial in high-voltage applications, with devices commonly rated at 1200V and 1700V, facilitating improved power density and system reliability.

The adoption of SiC power devices in solar inverters is accelerating, driven by the global push for renewable energy and the need for more efficient power conversion solutions. Technological advancements are focusing on the development of larger SiC wafers, such as the transition to 8-inch substrates, and the integration of advanced packaging techniques to enhance device performance and reduce costs. The market is witnessing significant growth, with projections indicating a substantial increase in demand for SiC-based solutions in the coming years. As governments worldwide

implement stricter energy efficiency regulations and support renewable energy initiatives, SiC power devices are poised to play a critical role in the evolution of solar inverter technology, contributing to more sustainable and efficient energy systems.

LP Information, Inc. (LPI) ' newest research report, the "SiC Power Devices for Solar Inverter Industry Forecast" looks at past sales and reviews total world SiC Power Devices for Solar Inverter sales in 2024, providing a comprehensive analysis by region and market sector of projected SiC Power Devices for Solar Inverter sales for 2025 through 2031. With SiC Power Devices for Solar Inverter sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world SiC Power Devices for Solar Inverter industry.

This Insight Report provides a comprehensive analysis of the global SiC Power Devices for Solar Inverter 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 Power Devices for Solar Inverter portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global SiC Power Devices for Solar Inverter market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for SiC Power Devices for Solar Inverter 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 Power Devices for Solar Inverter.

This report presents a comprehensive overview, market shares, and growth opportunities of SiC Power Devices for Solar Inverter market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

SiC MOSFET Modules

SiC MOSFET Discretes

SiC Diode/SBD

Segmentation by Application:

Residential & Light Commercial Solar Systems

Industrial & Commercial Solar Systems

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

STMicroelectronics

Infineon

Wolfspeed

Rohm

onsemi

BYD Semiconductor

Microchip (Microsemi)

Mitsubishi Electric (Vincotech)

Semikron Danfoss

Fuji Electric

Navitas (GeneSiC)

Toshiba

Qorvo (UnitedSiC)

San'an Optoelectronics

Littelfuse (IXYS)

CETC 55

WeEn Semiconductors

BASiC Semiconductor

SemiQ

Diodes Incorporated

SanRex

Alpha & Omega Semiconductor

Bosch

KEC Corporation

PANJIT Group

Nexperia

Vishay Intertechnology

Zhuzhou CRRC Times Electric

China Resources Microelectronics Limited

StarPower

Yangzhou Yangjie Electronic Technology

Guangdong AccoPower Semiconductor

Changzhou Galaxy Century Microelectronics

Hangzhou Silan Microelectronics

Cisoid

SK powertech

InventChip Technology

Hebei Sinopack Electronic Technology

Oriental Semiconductor

Jilin Sino-Microelectronics

PN Junction Semiconductor (Hangzhou)

United Nova Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global SiC Power Devices for Solar Inverter market?

What factors are driving SiC Power Devices for Solar Inverter market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do SiC Power Devices for Solar Inverter market opportunities vary by end market

size?

How does SiC Power Devices for Solar Inverter break out by Type, by Application?

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