

Global Wide Bandgap Power (WBG) Semiconductor Power Devices and Modules Market Growth (Status and Outlook) 2025-2031

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Abstracts

According to this study, the global Wide Bandgap Power (WBG) Semiconductor Power Devices and Modules market size will reach US\$ 14430 million by 2031.

Wide Bandgap Power (WBG) Semiconductor Power Devices and Modules refer to power electronic devices manufactured using wide bandgap materials such as silicon carbide (SiC) and gallium nitride (GaN). These materials possess a wider bandgap compared to traditional silicon-based materials, enabling operation at higher temperatures, voltages, and frequencies. They exhibit lower on-state resistance, higher efficiency, and smaller form factors. WBG devices are widely applied in high-efficiency power conversion, electric vehicles, renewable energy systems, and other fields.

Global key wide Wide Bandgap Power (WBG) Semiconductor Power Devices and Modules manufacturers include Wolfsped (Cree), Infineon Technologies, ROHM Semiconductor, STMicroelectronics and onsemi etc. The top 5 companies hold a share over 70%.

The market drivers for Wide Bandgap Power (WBG) Semiconductor Power Devices and Modules primarily stem from their significant advantages in performance and efficiency, as well as the global demand for improved energy efficiency. First, the rapid expansion of the electric vehicle (EV) market has made WBG devices a critical component in EV power systems due to their ability to operate at higher temperatures, voltages, and frequencies while reducing energy losses. Additionally, the fast-growing renewable energy systems, such as solar inverters and wind power systems, are driving the adoption of WBG devices because they enable more efficient power conversion and higher system reliability. Furthermore, the increasing demand for efficient power

management in data centers and telecommunications infrastructure is promoting the market penetration of WBG devices. Due to the lower on-state resistance and higher switching speeds of wide bandgap materials, power electronics can operate at higher efficiencies, reducing cooling requirements and lowering operational costs.

From a trend's perspective, Wide Bandgap Power (WBG) Semiconductor Power Devices and Modules are moving towards higher integration and modularization. In the future, advancements in manufacturing processes and cost reductions will make WBG devices more prevalent, gradually replacing traditional silicon-based devices. Currently, gallium nitride (GaN) and silicon carbide (SiC) are the two leading materials, with SiC dominating high-power applications and GaN being more suitable for high-frequency applications. Over the next few years, these two materials are expected to continue leading the market, but emerging ultra-wide bandgap materials like zinc oxide (ZnO) and diamond may also begin to gain prominence. Moreover, the rise of smart grids, industrial automation, and 5G communications offers vast application prospects for WBG devices. The growing demand for high-performance, low-energy, and compact solutions in these emerging fields will accelerate innovation and development in WBG technology.

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

This Insight Report provides a comprehensive analysis of the global Wide Bandgap Power (WBG) Semiconductor Power Devices and Modules landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Wide Bandgap Power (WBG) Semiconductor Power Devices and Modules portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Wide Bandgap Power (WBG) Semiconductor Power Devices and Modules market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Wide Bandgap Power (WBG) Semiconductor Power Devices and Modules 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 Wide Bandgap Power (WBG) Semiconductor Power Devices and Modules.

This report presents a comprehensive overview, market shares, and growth opportunities of Wide Bandgap Power (WBG) Semiconductor Power Devices and Modules market by product type, application, key players and key regions and countries.

Segmentation by Type:

Power SiC Devices and Modules

Power GaN Devices and Modules

Segmentation by Application:

Electric Vehicle

Photovoltaic and Energy Storage Systems

Electric Vehicle Charging Infrastructure

PFC Power Supply

Rail

Motor Drive

UPS

Others

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 analyzing the company's coverage, product portfolio, its market penetration.

Wolfsped (Cree)

Infineon Technologies

ROHM Semiconductor

STMicroelectronics

onsemi

Mitsubishi Electric

Littelfuse

Microsemi

GeneSiC Semiconductor

Transphorm

GaN Systems

Navitas Semiconductor

Efficient Power Conversion (EPC)

Coherent

GE Aerospace

Bruckewell

Powerex

Qorvo

DENSO

Fuji Electric

Renesas

Semikron Danfoss

Bosch

Vitesco

NXP

CISSOID

Trinno

SK powertech

Rfsemi

Power Master Semiconductor

Actron Technology

United Nova Technology

Silan

GTA Semiconductor

BASiC Semiconductor

Pyrotech Workspace Solutions

Wingtech Technology

Yangzhou Yangjie Electronic Technology

Oriental Semiconductor

BYD Semiconductor

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