

# Global SiC Gel-filled Power Modules Market Growth 2026-2032

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## Abstracts

The global SiC Gel-filled Power Modules market size is predicted to grow from US\$ 1618 million in 2025 to US\$ 5291 million in 2032; it is expected to grow at a CAGR of 17.0% from 2026 to 2032.

SiC gel-filled power modules refer to power modules built around SiC MOSFETs and, in some cases, companion SiC diodes in which the active area is protected by silicone-gel encapsulation or other liquid potting materials inside a conventional case-type housing. From a packaging standpoint, this is the classic case-type / housing-type module architecture, clearly differentiated from transfer-molded or overmolded solutions. Mitsubishi Electric explicitly states that power-module sealing technologies mainly include transfer molding, silicone-gel sealing, and liquid epoxy sealing, and identifies silicone-gel sealing as the typical approach for general case-type modules. onsemi likewise separates gel-encapsulated case modules from transfer-molded modules within its EliteSiC traction-inverter portfolio, while Infineon material declarations for its Easy3B and 62mm SiC module families explicitly list silicone gel. In commercial terms, the product category spans half-bridge, six-pack, buck/boost, chopper, 3-level, and industry-standard 62mm / EasyPACK / HybridPACK / SEMITRANS-type formats, while the main voltage classes remain concentrated at 750V, 1200V, and 1700V, with extensions into 2000V, 3300V and above for industrial, traction, and grid-class applications.

In terms of applications and market structure, SiC gel-filled power modules remain one of the mainstream solutions in medium-to-high power, high-current, and high-voltage power conversion. Their primary application domains include EV traction inverters, industrial motor drives, photovoltaic and storage converters, EV charging infrastructure, rail traction, grid equipment, and high-end power supplies. Infineon positions

HybridPACK Drive with Si and SiC technology as a market-leading traction inverter module for electric vehicles; Hitachi Energy's RoadPak SiC targets a broad range of e-mobility applications; Fuji Electric has commercialized 1200V and 1700V All-SiC modules for motor drives, renewable energy and traction; and Semikron Danfoss offers SiC module portfolios covering six-pack, half-bridge and buck/boost topologies. Based on public product positioning, the competitive landscape is led primarily by Infineon, onsemi, Semikron Danfoss, Mitsubishi Electric, Fuji Electric, Wolfspeed, and Hitachi Energy, with European and US suppliers retaining strong positions in automotive and industrial standard platforms, while Japanese suppliers remain particularly strong in high-reliability, high-voltage and traction-oriented applications.

From an industry-status and trend perspective, SiC gel-filled power modules are unlikely to be rapidly displaced by transfer-molded modules. The more probable trajectory is a dual-track market structure, in which parts of the automotive market migrate toward molded packages, while industrial, high-voltage and large-format power stages continue to rely heavily on gel-filled or potted case modules. The fact that onsemi simultaneously offers gel-encapsulated case modules and transfer-molded modules already demonstrates that both architectures coexist commercially. Mitsubishi Electric further notes that, from its fifth automotive generation onward, T-PM gradually replaced conventional silicone-gel potting in selected vehicle platforms, indicating that automotive miniaturization and power-density requirements are driving molded adoption. However, that does not eliminate the engineering value of silicone-gel sealing in larger, high-current, high-isolation modules. Mitsubishi also highlights that silicone-gel sealing offers strong heat resistance and insulation performance, and its low viscosity makes it well suited for filling narrow internal gaps. In practice, mainstream industrial and standard-housing platforms from companies such as Infineon, Wolfspeed and Semikron Danfoss remain commercially relevant. Overall, SiC gel-filled power modules continue to represent a key package form in industrial standard packages, rail, grid, high-power charging, and selected traction systems, while the market evolves from a single packaging route toward a more application-segmented coexistence model.

The long-term demand outlook for SiC gel-filled power modules remains well supported by structural growth drivers. First, EV adoption continues to be the single strongest demand engine: the IEA expects global electric-car sales to exceed 20 million in 2025, with first-quarter sales already up 35% year on year, sustaining demand for high-performance SiC modules in traction inverters, auxiliary high-voltage converters and charging systems. Second, renewable-power expansion remains a major source of medium- and high-voltage demand: the IEA projects almost 4,600 GW of additional renewable capacity between 2025 and 2030, with roughly 80% of that increase coming

from solar PV, reinforcing the need for 1200V, 1700V and higher-voltage SiC modules in PV inverters, storage PCS and grid-side converters. Third, industrial drives, rail and grid equipment continue to require large-format, high-current, structurally mature and fully qualified module platforms. Fuji Electric explicitly positions its 1700V All-SiC modules for motor drives, renewable energy and traction, while Wolfspeed's 62mm SiC module family directly addresses industrial test equipment, rail/traction and EV charging infrastructure. Accordingly, even as transfer-molded packaging gains ground in selected automotive platforms, SiC gel-filled power modules are expected to retain a central role in medium-to-high power, high-voltage and high-reliability applications for the foreseeable future.

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

This Insight Report provides a comprehensive analysis of the global SiC Gel-filled Power 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 analyzes the strategies of leading global companies with a focus on SiC Gel-filled Power Modules portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global SiC Gel-filled Power Modules market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for SiC Gel-filled Power Modules and breaks down the forecast by Voltage Class, 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 Gel-filled Power Modules.

This report presents a comprehensive overview, market shares, and growth opportunities of SiC Gel-filled Power Modules market by product type, application, key manufacturers and key regions and countries.

### Segmentation by Voltage Class:

1200V Gel-filled SiC Module

650-900V Gel-filled SiC Module

1700V Gel-filled SiC Module

2000-2300V Gel-filled SiC Module

3300V and Above Transfer Molded SiC Module

### Segmentation by Topology Type:

Sixpack

Half-bridge

Full-Bridge

Others

### Segmentation by Package Type:

HPD

DCM

T-PAK

Others

### Segmentation by Application:

Automotive

Industrial

Household Appliances

PV/Wind Power/Energy Storage/Power Grid

UPS/Data Center/Communication

Rail Transit

Aviation and Military

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

Infineon

Wolfspeed

Rohm

onsemi

BYD Semiconductor

Microchip (Microsemi)

Mitsubishi Electric

Semikron Danfoss

Fuji Electric

Toshiba

CETC 55

WeEn Semiconductors

BASiC Semiconductor

SemiQ

Bosch

GE Aerospace

Vishay Intertechnology

StarPower

Yangzhou Yangjie Electronic Technology

Guangdong AccoPower Semiconductor

Hangzhou Silan Microelectronics

United Nova Technology (UNT)

InventChip Technology (IVCT)

Leadrive Technology

HAIMOSIC (SHANGHAI)

Suzhou Xizhi Technology

Archimedes Semiconductor (Hefei)

Grecon Semiconductor (Shanghai)

Hebei Sinopack Electronic Technology

Denso

GeePak

Minebea Power Semiconductor Device

MacMic Science & Technolog

### **Key Questions Addressed in this Report**

What is the 10-year outlook for the global SiC Gel-filled Power Modules market?

What factors are driving SiC Gel-filled Power Modules market growth, globally and by region?

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

How do SiC Gel-filled Power Modules market opportunities vary by end market size?

How does SiC Gel-filled Power Modules break out by Voltage Class, by Application?

## Contents

### 1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

### 2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
  - 2.1.1 Global SiC Gel-filled Power Modules Annual Sales 2021-2032
  - 2.1.2 World Current & Future Analysis for SiC Gel-filled Power Modules by Geographic Region, 2021, 2025 & 2032
  - 2.1.3 World Current & Future Analysis for SiC Gel-filled Power Modules by Country/Region, 2021, 2025 & 2032
- 2.2 SiC Gel-filled Power Modules Segment by Voltage Class
  - 2.2.1 1200V Gel-filled SiC Module
  - 2.2.2 650-900V Gel-filled SiC Module
  - 2.2.3 1700V Gel-filled SiC Module
  - 2.2.4 2000-2300V Gel-filled SiC Module
  - 2.2.5 3300V and Above Transfer Molded SiC Module
  - 2.2.6 SiC Gel-filled Power Modules Sales by Voltage Class
    - 2.2.6.1 Global SiC Gel-filled Power Modules Sales Market Share by Voltage Class (2021-2026)
    - 2.2.6.2 Global SiC Gel-filled Power Modules Revenue and Market Share by Voltage Class (2021-2026)
    - 2.2.6.3 Global SiC Gel-filled Power Modules Sale Price by Voltage Class (2021-2026)
- 2.3 SiC Gel-filled Power Modules Segment by Topology Type
  - 2.3.1 Sixpack
  - 2.3.2 Half-bridge
  - 2.3.3 Full-Bridge
  - 2.3.4 Others
  - 2.3.5 SiC Gel-filled Power Modules Sales by Topology Type

2.3.5.1 Global SiC Gel-filled Power Modules Sales Market Share by Topology Type (2021-2026)

2.3.5.2 Global SiC Gel-filled Power Modules Revenue and Market Share by Topology Type (2021-2026)

2.3.5.3 Global SiC Gel-filled Power Modules Sale Price by Topology Type (2021-2026)

2.4 SiC Gel-filled Power Modules Segment by Package Type

2.4.1 HPD

2.4.2 DCM

2.4.3 T-PAK

2.4.4 Others

2.4.5 SiC Gel-filled Power Modules Sales by Package Type

2.4.5.1 Global SiC Gel-filled Power Modules Sales Market Share by Package Type (2021-2026)

2.4.5.2 Global SiC Gel-filled Power Modules Revenue and Market Share by Package Type (2021-2026)

2.4.5.3 Global SiC Gel-filled Power Modules Sale Price by Package Type (2021-2026)

2.5 SiC Gel-filled Power Modules Segment by Application

2.5.1 Automotive

2.5.2 Industrial

2.5.3 Household Appliances

2.5.4 PV/Wind Power/Energy Storage/Power Grid

2.5.5 UPS/Data Center/Communication

2.5.6 Rail Transit

2.5.7 Aviation and Military

2.5.8 Others

2.5.9 SiC Gel-filled Power Modules Sales by Application

2.5.9.1 Global SiC Gel-filled Power Modules Sale Market Share by Application (2021-2026)

2.5.9.2 Global SiC Gel-filled Power Modules Revenue and Market Share by Application (2021-2026)

2.5.9.3 Global SiC Gel-filled Power Modules Sale Price by Application (2021-2026)

### **3 GLOBAL BY COMPANY**

3.1 Global SiC Gel-filled Power Modules Breakdown Data by Company

3.1.1 Global SiC Gel-filled Power Modules Annual Sales by Company (2021-2026)

3.1.2 Global SiC Gel-filled Power Modules Sales Market Share by Company

(2021-2026)

3.2 Global SiC Gel-filled Power Modules Annual Revenue by Company (2021-2026)

3.2.1 Global SiC Gel-filled Power Modules Revenue by Company (2021-2026)

3.2.2 Global SiC Gel-filled Power Modules Revenue Market Share by Company

(2021-2026)

3.3 Global SiC Gel-filled Power Modules Sale Price by Company

3.4 Key Manufacturers SiC Gel-filled Power Modules Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers SiC Gel-filled Power Modules Product Location Distribution

3.4.2 Players SiC Gel-filled Power Modules Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

## **4 WORLD HISTORIC REVIEW FOR SiC GEL-FILLED POWER MODULES BY GEOGRAPHIC REGION**

4.1 World Historic SiC Gel-filled Power Modules Market Size by Geographic Region (2021-2026)

4.1.1 Global SiC Gel-filled Power Modules Annual Sales by Geographic Region (2021-2026)

4.1.2 Global SiC Gel-filled Power Modules Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic SiC Gel-filled Power Modules Market Size by Country/Region (2021-2026)

4.2.1 Global SiC Gel-filled Power Modules Annual Sales by Country/Region (2021-2026)

4.2.2 Global SiC Gel-filled Power Modules Annual Revenue by Country/Region (2021-2026)

4.3 Americas SiC Gel-filled Power Modules Sales Growth

4.4 APAC SiC Gel-filled Power Modules Sales Growth

4.5 Europe SiC Gel-filled Power Modules Sales Growth

4.6 Middle East & Africa SiC Gel-filled Power Modules Sales Growth

## **5 AMERICAS**

5.1 Americas SiC Gel-filled Power Modules Sales by Country

- 5.1.1 Americas SiC Gel-filled Power Modules Sales by Country (2021-2026)
- 5.1.2 Americas SiC Gel-filled Power Modules Revenue by Country (2021-2026)
- 5.2 Americas SiC Gel-filled Power Modules Sales by Voltage Class (2021-2026)
- 5.3 Americas SiC Gel-filled Power Modules Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

## **6 APAC**

- 6.1 APAC SiC Gel-filled Power Modules Sales by Region
  - 6.1.1 APAC SiC Gel-filled Power Modules Sales by Region (2021-2026)
  - 6.1.2 APAC SiC Gel-filled Power Modules Revenue by Region (2021-2026)
- 6.2 APAC SiC Gel-filled Power Modules Sales by Voltage Class (2021-2026)
- 6.3 APAC SiC Gel-filled Power Modules Sales by Application (2021-2026)
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

## **7 EUROPE**

- 7.1 Europe SiC Gel-filled Power Modules by Country
  - 7.1.1 Europe SiC Gel-filled Power Modules Sales by Country (2021-2026)
  - 7.1.2 Europe SiC Gel-filled Power Modules Revenue by Country (2021-2026)
- 7.2 Europe SiC Gel-filled Power Modules Sales by Voltage Class (2021-2026)
- 7.3 Europe SiC Gel-filled Power Modules Sales by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

## **8 MIDDLE EAST & AFRICA**

## 8.1 Middle East & Africa SiC Gel-filled Power Modules by Country

8.1.1 Middle East & Africa SiC Gel-filled Power Modules Sales by Country (2021-2026)

8.1.2 Middle East & Africa SiC Gel-filled Power Modules Revenue by Country (2021-2026)

8.2 Middle East & Africa SiC Gel-filled Power Modules Sales by Voltage Class (2021-2026)

8.3 Middle East & Africa SiC Gel-filled Power Modules Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

## **9 MARKET DRIVERS, CHALLENGES AND TRENDS**

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

## **10 MANUFACTURING COST STRUCTURE ANALYSIS**

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of SiC Gel-filled Power Modules

10.3 Manufacturing Process Analysis of SiC Gel-filled Power Modules

10.4 Industry Chain Structure of SiC Gel-filled Power Modules

## **11 MARKETING, DISTRIBUTORS AND CUSTOMER**

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 SiC Gel-filled Power Modules Distributors

11.3 SiC Gel-filled Power Modules Customer

## **12 WORLD FORECAST REVIEW FOR SiC GEL-FILLED POWER MODULES BY GEOGRAPHIC REGION**

12.1 Global SiC Gel-filled Power Modules Market Size Forecast by Region

12.1.1 Global SiC Gel-filled Power Modules Forecast by Region (2027-2032)

12.1.2 Global SiC Gel-filled Power Modules Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global SiC Gel-filled Power Modules Forecast by Voltage Class (2027-2032)

12.7 Global SiC Gel-filled Power Modules Forecast by Application (2027-2032)

## **13 KEY PLAYERS ANALYSIS**

### 13.1 Infineon

13.1.1 Infineon Company Information

13.1.2 Infineon SiC Gel-filled Power Modules Product Portfolios and Specifications

13.1.3 Infineon SiC Gel-filled Power Modules Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Infineon Main Business Overview

13.1.5 Infineon Latest Developments

### 13.2 Wolfspeed

13.2.1 Wolfspeed Company Information

13.2.2 Wolfspeed SiC Gel-filled Power Modules Product Portfolios and Specifications

13.2.3 Wolfspeed SiC Gel-filled Power Modules Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Wolfspeed Main Business Overview

13.2.5 Wolfspeed Latest Developments

### 13.3 Rohm

13.3.1 Rohm Company Information

13.3.2 Rohm SiC Gel-filled Power Modules Product Portfolios and Specifications

13.3.3 Rohm SiC Gel-filled Power Modules Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Rohm Main Business Overview

13.3.5 Rohm Latest Developments

### 13.4 onsemi

13.4.1 onsemi Company Information

13.4.2 onsemi SiC Gel-filled Power Modules Product Portfolios and Specifications

13.4.3 onsemi SiC Gel-filled Power Modules Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 onsemi Main Business Overview

13.4.5 onsemi Latest Developments

## 13.5 BYD Semiconductor

### 13.5.1 BYD Semiconductor Company Information

### 13.5.2 BYD Semiconductor SiC Gel-filled Power Modules Product Portfolios and Specifications

### 13.5.3 BYD Semiconductor SiC Gel-filled Power Modules Sales, Revenue, Price and Gross Margin (2021-2026)

### 13.5.4 BYD Semiconductor Main Business Overview

### 13.5.5 BYD Semiconductor Latest Developments

## 13.6 Microchip (Microsemi)

### 13.6.1 Microchip (Microsemi) Company Information

### 13.6.2 Microchip (Microsemi) SiC Gel-filled Power Modules Product Portfolios and Specifications

### 13.6.3 Microchip (Microsemi) SiC Gel-filled Power Modules Sales, Revenue, Price and Gross Margin (2021-2026)

### 13.6.4 Microchip (Microsemi) Main Business Overview

### 13.6.5 Microchip (Microsemi) Latest Developments

## 13.7 Mitsubishi Electric

### 13.7.1 Mitsubishi Electric Company Information

### 13.7.2 Mitsubishi Electric SiC Gel-filled Power Modules Product Portfolios and Specifications

### 13.7.3 Mitsubishi Electric SiC Gel-filled Power Modules Sales, Revenue, Price and Gross Margin (2021-2026)

### 13.7.4 Mitsubishi Electric Main Business Overview

### 13.7.5 Mitsubishi Electric Latest Developments

## 13.8 Semikron Danfoss

### 13.8.1 Semikron Danfoss Company Information

### 13.8.2 Semikron Danfoss SiC Gel-filled Power Modules Product Portfolios and Specifications

### 13.8.3 Semikron Danfoss SiC Gel-filled Power Modules Sales, Revenue, Price and Gross Margin (2021-2026)

### 13.8.4 Semikron Danfoss Main Business Overview

### 13.8.5 Semikron Danfoss Latest Developments

## 13.9 Fuji Electric

### 13.9.1 Fuji Electric Company Information

### 13.9.2 Fuji Electric SiC Gel-filled Power Modules Product Portfolios and Specifications

### 13.9.3 Fuji Electric SiC Gel-filled Power Modules Sales, Revenue, Price and Gross Margin (2021-2026)

### 13.9.4 Fuji Electric Main Business Overview

### 13.9.5 Fuji Electric Latest Developments

## 13.10 Toshiba

13.10.1 Toshiba Company Information

13.10.2 Toshiba SiC Gel-filled Power Modules Product Portfolios and Specifications

13.10.3 Toshiba SiC Gel-filled Power Modules Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Toshiba Main Business Overview

13.10.5 Toshiba Latest Developments

## 13.11 CETC

13.11.1 CETC 55 Company Information

13.11.2 CETC 55 SiC Gel-filled Power Modules Product Portfolios and Specifications

13.11.3 CETC 55 SiC Gel-filled Power Modules Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 CETC 55 Main Business Overview

13.11.5 CETC 55 Latest Developments

## 13.12 WeEn Semiconductors

13.12.1 WeEn Semiconductors Company Information

13.12.2 WeEn Semiconductors SiC Gel-filled Power Modules Product Portfolios and Specifications

13.12.3 WeEn Semiconductors SiC Gel-filled Power Modules Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 WeEn Semiconductors Main Business Overview

13.12.5 WeEn Semiconductors Latest Developments

## 13.13 BASiC Semiconductor

13.13.1 BASiC Semiconductor Company Information

13.13.2 BASiC Semiconductor SiC Gel-filled Power Modules Product Portfolios and Specifications

13.13.3 BASiC Semiconductor SiC Gel-filled Power Modules Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 BASiC Semiconductor Main Business Overview

13.13.5 BASiC Semiconductor Latest Developments

## 13.14 SemiQ

13.14.1 SemiQ Company Information

13.14.2 SemiQ SiC Gel-filled Power Modules Product Portfolios and Specifications

13.14.3 SemiQ SiC Gel-filled Power Modules Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 SemiQ Main Business Overview

13.14.5 SemiQ Latest Developments

## 13.15 Bosch

13.15.1 Bosch Company Information

- 13.15.2 Bosch SiC Gel-filled Power Modules Product Portfolios and Specifications
- 13.15.3 Bosch SiC Gel-filled Power Modules Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.15.4 Bosch Main Business Overview
- 13.15.5 Bosch Latest Developments
- 13.16 GE Aerospace
  - 13.16.1 GE Aerospace Company Information
  - 13.16.2 GE Aerospace SiC Gel-filled Power Modules Product Portfolios and Specifications
  - 13.16.3 GE Aerospace SiC Gel-filled Power Modules Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.16.4 GE Aerospace Main Business Overview
  - 13.16.5 GE Aerospace Latest Developments
- 13.17 Vishay Intertechnology
  - 13.17.1 Vishay Intertechnology Company Information
  - 13.17.2 Vishay Intertechnology SiC Gel-filled Power Modules Product Portfolios and Specifications
  - 13.17.3 Vishay Intertechnology SiC Gel-filled Power Modules Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.17.4 Vishay Intertechnology Main Business Overview
  - 13.17.5 Vishay Intertechnology Latest Developments
- 13.18 StarPower
  - 13.18.1 StarPower Company Information
  - 13.18.2 StarPower SiC Gel-filled Power Modules Product Portfolios and Specifications
  - 13.18.3 StarPower SiC Gel-filled Power Modules Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.18.4 StarPower Main Business Overview
  - 13.18.5 StarPower Latest Developments
- 13.19 Yangzhou Yangjie Electronic Technology
  - 13.19.1 Yangzhou Yangjie Electronic Technology Company Information
  - 13.19.2 Yangzhou Yangjie Electronic Technology SiC Gel-filled Power Modules Product Portfolios and Specifications
  - 13.19.3 Yangzhou Yangjie Electronic Technology SiC Gel-filled Power Modules Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.19.4 Yangzhou Yangjie Electronic Technology Main Business Overview
  - 13.19.5 Yangzhou Yangjie Electronic Technology Latest Developments
- 13.20 Guangdong AccoPower Semiconductor
  - 13.20.1 Guangdong AccoPower Semiconductor Company Information
  - 13.20.2 Guangdong AccoPower Semiconductor SiC Gel-filled Power Modules Product

## Portfolios and Specifications

13.20.3 Guangdong AccoPower Semiconductor SiC Gel-filled Power Modules Sales, Revenue, Price and Gross Margin (2021-2026)

13.20.4 Guangdong AccoPower Semiconductor Main Business Overview

13.20.5 Guangdong AccoPower Semiconductor Latest Developments

## 13.21 Hangzhou Silan Microelectronics

13.21.1 Hangzhou Silan Microelectronics Company Information

13.21.2 Hangzhou Silan Microelectronics SiC Gel-filled Power Modules Product

## Portfolios and Specifications

13.21.3 Hangzhou Silan Microelectronics SiC Gel-filled Power Modules Sales, Revenue, Price and Gross Margin (2021-2026)

13.21.4 Hangzhou Silan Microelectronics Main Business Overview

13.21.5 Hangzhou Silan Microelectronics Latest Developments

## 13.22 United Nova Technology (UNT)

13.22.1 United Nova Technology (UNT) Company Information

13.22.2 United Nova Technology (UNT) SiC Gel-filled Power Modules Product

## Portfolios and Specifications

13.22.3 United Nova Technology (UNT) SiC Gel-filled Power Modules Sales, Revenue, Price and Gross Margin (2021-2026)

13.22.4 United Nova Technology (UNT) Main Business Overview

13.22.5 United Nova Technology (UNT) Latest Developments

## 13.23 InventChip Technology (IVCT)

13.23.1 InventChip Technology (IVCT) Company Information

13.23.2 InventChip Technology (IVCT) SiC Gel-filled Power Modules Product

## Portfolios and Specifications

13.23.3 InventChip Technology (IVCT) SiC Gel-filled Power Modules Sales, Revenue, Price and Gross Margin (2021-2026)

13.23.4 InventChip Technology (IVCT) Main Business Overview

13.23.5 InventChip Technology (IVCT) Latest Developments

## 13.24 Leadrive Technology

13.24.1 Leadrive Technology Company Information

13.24.2 Leadrive Technology SiC Gel-filled Power Modules Product Portfolios and

## Specifications

13.24.3 Leadrive Technology SiC Gel-filled Power Modules Sales, Revenue, Price and Gross Margin (2021-2026)

13.24.4 Leadrive Technology Main Business Overview

13.24.5 Leadrive Technology Latest Developments

## 13.25 HAIMOSIC (SHANGHAI)

13.25.1 HAIMOSIC (SHANGHAI) Company Information

13.25.2 HAIMOSIC (SHANGHAI) SiC Gel-filled Power Modules Product Portfolios and Specifications

13.25.3 HAIMOSIC (SHANGHAI) SiC Gel-filled Power Modules Sales, Revenue, Price and Gross Margin (2021-2026)

13.25.4 HAIMOSIC (SHANGHAI) Main Business Overview

13.25.5 HAIMOSIC (SHANGHAI) Latest Developments

13.26 Suzhou Xizhi Technology

13.26.1 Suzhou Xizhi Technology Company Information

13.26.2 Suzhou Xizhi Technology SiC Gel-filled Power Modules Product Portfolios and Specifications

13.26.3 Suzhou Xizhi Technology SiC Gel-filled Power Modules Sales, Revenue, Price and Gross Margin (2021-2026)

13.26.4 Suzhou Xizhi Technology Main Business Overview

13.26.5 Suzhou Xizhi Technology Latest Developments

13.27 Archimedes Semiconductor (Hefei)

13.27.1 Archimedes Semiconductor (Hefei) Company Information

13.27.2 Archimedes Semiconductor (Hefei) SiC Gel-filled Power Modules Product Portfolios and Specifications

13.27.3 Archimedes Semiconductor (Hefei) SiC Gel-filled Power Modules Sales, Revenue, Price and Gross Margin (2021-2026)

13.27.4 Archimedes Semiconductor (Hefei) Main Business Overview

13.27.5 Archimedes Semiconductor (Hefei) Latest Developments

13.28 Grecon Semiconductor (Shanghai)

13.28.1 Grecon Semiconductor (Shanghai) Company Information

13.28.2 Grecon Semiconductor (Shanghai) SiC Gel-filled Power Modules Product Portfolios and Specifications

13.28.3 Grecon Semiconductor (Shanghai) SiC Gel-filled Power Modules Sales, Revenue, Price and Gross Margin (2021-2026)

13.28.4 Grecon Semiconductor (Shanghai) Main Business Overview

13.28.5 Grecon Semiconductor (Shanghai) Latest Developments

13.29 Hebei Sinopack Electronic Technology

13.29.1 Hebei Sinopack Electronic Technology Company Information

13.29.2 Hebei Sinopack Electronic Technology SiC Gel-filled Power Modules Product Portfolios and Specifications

13.29.3 Hebei Sinopack Electronic Technology SiC Gel-filled Power Modules Sales, Revenue, Price and Gross Margin (2021-2026)

13.29.4 Hebei Sinopack Electronic Technology Main Business Overview

13.29.5 Hebei Sinopack Electronic Technology Latest Developments

13.30 Denso

- 13.30.1 Denso Company Information
- 13.30.2 Denso SiC Gel-filled Power Modules Product Portfolios and Specifications
- 13.30.3 Denso SiC Gel-filled Power Modules Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.30.4 Denso Main Business Overview
- 13.30.5 Denso Latest Developments
- 13.31 GeePak
  - 13.31.1 GeePak Company Information
  - 13.31.2 GeePak SiC Gel-filled Power Modules Product Portfolios and Specifications
  - 13.31.3 GeePak SiC Gel-filled Power Modules Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.31.4 GeePak Main Business Overview
  - 13.31.5 GeePak Latest Developments
- 13.32 Minebea Power Semiconductor Device
  - 13.32.1 Minebea Power Semiconductor Device Company Information
  - 13.32.2 Minebea Power Semiconductor Device SiC Gel-filled Power Modules Product Portfolios and Specifications
  - 13.32.3 Minebea Power Semiconductor Device SiC Gel-filled Power Modules Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.32.4 Minebea Power Semiconductor Device Main Business Overview
  - 13.32.5 Minebea Power Semiconductor Device Latest Developments
- 13.33 MacMic Science & Technolog
  - 13.33.1 MacMic Science & Technolog Company Information
  - 13.33.2 MacMic Science & Technolog SiC Gel-filled Power Modules Product Portfolios and Specifications
  - 13.33.3 MacMic Science & Technolog SiC Gel-filled Power Modules Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.33.4 MacMic Science & Technolog Main Business Overview
  - 13.33.5 MacMic Science & Technolog Latest Developments

## **14 RESEARCH FINDINGS AND CONCLUSION**

## List Of Tables

### LIST OF TABLES

Table 1. SiC Gel-filled Power Modules Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. SiC Gel-filled Power Modules Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of 1200V Gel-filled SiC Module

Table 4. Major Players of 650-900V Gel-filled SiC Module

Table 5. Major Players of 1700V Gel-filled SiC Module

Table 6. Major Players of 2000-2300V Gel-filled SiC Module

Table 7. Major Players of 3300V and Above Transfer Molded SiC Module

Table 8. Global SiC Gel-filled Power Modules Sales by Voltage Class (2021-2026) & (K Units)

Table 9. Global SiC Gel-filled Power Modules Sales Market Share by Voltage Class (2021-2026)

Table 10. Global SiC Gel-filled Power Modules Revenue by Voltage Class (2021-2026) & (\$ million)

Table 11. Global SiC Gel-filled Power Modules Revenue Market Share by Voltage Class (2021-2026)

Table 12. Global SiC Gel-filled Power Modules Sale Price by Voltage Class (2021-2026) & (US\$/Unit)

Table 13. Major Players of Sixpack

Table 14. Major Players of Half-bridge

Table 15. Major Players of Full-Bridge

Table 16. Major Players of Others

Table 17. Global SiC Gel-filled Power Modules Sales by Topology Type (2021-2026) & (K Units)

Table 18. Global SiC Gel-filled Power Modules Sales Market Share by Topology Type (2021-2026)

Table 19. Global SiC Gel-filled Power Modules Revenue by Topology Type (2021-2026) & (\$ million)

Table 20. Global SiC Gel-filled Power Modules Revenue Market Share by Topology Type (2021-2026)

Table 21. Global SiC Gel-filled Power Modules Sale Price by Topology Type (2021-2026) & (US\$/Unit)

Table 22. Major Players of HPD

Table 23. Major Players of DCM

Table 24. Major Players of T-PAK

Table 25. Major Players of Others

Table 26. Global SiC Gel-filled Power Modules Sales by Package Type (2021-2026) & (K Units)

Table 27. Global SiC Gel-filled Power Modules Sales Market Share by Package Type (2021-2026)

Table 28. Global SiC Gel-filled Power Modules Revenue by Package Type (2021-2026) & (\$ million)

Table 29. Global SiC Gel-filled Power Modules Revenue Market Share by Package Type (2021-2026)

Table 30. Global SiC Gel-filled Power Modules Sale Price by Package Type (2021-2026) & (US\$/Unit)

Table 31. Global SiC Gel-filled Power Modules Sale by Application (2021-2026) & (K Units)

Table 32. Global SiC Gel-filled Power Modules Sale Market Share by Application (2021-2026)

Table 33. Global SiC Gel-filled Power Modules Revenue by Application (2021-2026) & (\$ million)

Table 34. Global SiC Gel-filled Power Modules Revenue Market Share by Application (2021-2026)

Table 35. Global SiC Gel-filled Power Modules Sale Price by Application (2021-2026) & (US\$/Unit)

Table 36. Global SiC Gel-filled Power Modules Sales by Company (2021-2026) & (K Units)

Table 37. Global SiC Gel-filled Power Modules Sales Market Share by Company (2021-2026)

Table 38. Global SiC Gel-filled Power Modules Revenue by Company (2021-2026) & (\$ millions)

Table 39. Global SiC Gel-filled Power Modules Revenue Market Share by Company (2021-2026)

Table 40. Global SiC Gel-filled Power Modules Sale Price by Company (2021-2026) & (US\$/Unit)

Table 41. Key Manufacturers SiC Gel-filled Power Modules Producing Area Distribution and Sales Area

Table 42. Players SiC Gel-filled Power Modules Products Offered

Table 43. SiC Gel-filled Power Modules Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 44. New Products and Potential Entrants

Table 45. Market M&A Activity & Strategy

- Table 46. Global SiC Gel-filled Power Modules Sales by Geographic Region (2021-2026) & (K Units)
- Table 47. Global SiC Gel-filled Power Modules Sales Market Share Geographic Region (2021-2026)
- Table 48. Global SiC Gel-filled Power Modules Revenue by Geographic Region (2021-2026) & (\$ millions)
- Table 49. Global SiC Gel-filled Power Modules Revenue Market Share by Geographic Region (2021-2026)
- Table 50. Global SiC Gel-filled Power Modules Sales by Country/Region (2021-2026) & (K Units)
- Table 51. Global SiC Gel-filled Power Modules Sales Market Share by Country/Region (2021-2026)
- Table 52. Global SiC Gel-filled Power Modules Revenue by Country/Region (2021-2026) & (\$ millions)
- Table 53. Global SiC Gel-filled Power Modules Revenue Market Share by Country/Region (2021-2026)
- Table 54. Americas SiC Gel-filled Power Modules Sales by Country (2021-2026) & (K Units)
- Table 55. Americas SiC Gel-filled Power Modules Sales Market Share by Country (2021-2026)
- Table 56. Americas SiC Gel-filled Power Modules Revenue by Country (2021-2026) & (\$ millions)
- Table 57. Americas SiC Gel-filled Power Modules Sales by Voltage Class (2021-2026) & (K Units)
- Table 58. Americas SiC Gel-filled Power Modules Sales by Application (2021-2026) & (K Units)
- Table 59. APAC SiC Gel-filled Power Modules Sales by Region (2021-2026) & (K Units)
- Table 60. APAC SiC Gel-filled Power Modules Sales Market Share by Region (2021-2026)
- Table 61. APAC SiC Gel-filled Power Modules Revenue by Region (2021-2026) & (\$ millions)
- Table 62. APAC SiC Gel-filled Power Modules Sales by Voltage Class (2021-2026) & (K Units)
- Table 63. APAC SiC Gel-filled Power Modules Sales by Application (2021-2026) & (K Units)
- Table 64. Europe SiC Gel-filled Power Modules Sales by Country (2021-2026) & (K Units)
- Table 65. Europe SiC Gel-filled Power Modules Revenue by Country (2021-2026) & (\$ millions)

- Table 66. Europe SiC Gel-filled Power Modules Sales by Voltage Class (2021-2026) & (K Units)
- Table 67. Europe SiC Gel-filled Power Modules Sales by Application (2021-2026) & (K Units)
- Table 68. Middle East & Africa SiC Gel-filled Power Modules Sales by Country (2021-2026) & (K Units)
- Table 69. Middle East & Africa SiC Gel-filled Power Modules Revenue Market Share by Country (2021-2026)
- Table 70. Middle East & Africa SiC Gel-filled Power Modules Sales by Voltage Class (2021-2026) & (K Units)
- Table 71. Middle East & Africa SiC Gel-filled Power Modules Sales by Application (2021-2026) & (K Units)
- Table 72. Key Market Drivers & Growth Opportunities of SiC Gel-filled Power Modules
- Table 73. Key Market Challenges & Risks of SiC Gel-filled Power Modules
- Table 74. Key Industry Trends of SiC Gel-filled Power Modules
- Table 75. SiC Gel-filled Power Modules Raw Material
- Table 76. Key Suppliers of Raw Materials
- Table 77. SiC Gel-filled Power Modules Distributors List
- Table 78. SiC Gel-filled Power Modules Customer List
- Table 79. Global SiC Gel-filled Power Modules Sales Forecast by Region (2027-2032) & (K Units)
- Table 80. Global SiC Gel-filled Power Modules Revenue Forecast by Region (2027-2032) & (\$ millions)
- Table 81. Americas SiC Gel-filled Power Modules Sales Forecast by Country (2027-2032) & (K Units)
- Table 82. Americas SiC Gel-filled Power Modules Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
- Table 83. APAC SiC Gel-filled Power Modules Sales Forecast by Region (2027-2032) & (K Units)
- Table 84. APAC SiC Gel-filled Power Modules Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
- Table 85. Europe SiC Gel-filled Power Modules Sales Forecast by Country (2027-2032) & (K Units)
- Table 86. Europe SiC Gel-filled Power Modules Revenue Forecast by Country (2027-2032) & (\$ millions)
- Table 87. Middle East & Africa SiC Gel-filled Power Modules Sales Forecast by Country (2027-2032) & (K Units)
- Table 88. Middle East & Africa SiC Gel-filled Power Modules Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 89. Global SiC Gel-filled Power Modules Sales Forecast by Voltage Class (2027-2032) & (K Units)

Table 90. Global SiC Gel-filled Power Modules Revenue Forecast by Voltage Class (2027-2032) & (\$ millions)

Table 91. Global SiC Gel-filled Power Modules Sales Forecast by Application (2027-2032) & (K Units)

Table 92. Global SiC Gel-filled Power Modules Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 93. Infineon Basic Information, SiC Gel-filled Power Modules Manufacturing Base, Sales Area and Its Competitors

Table 94. Infineon SiC Gel-filled Power Modules Product Portfolios and Specifications

Table 95. Infineon SiC Gel-filled Power Modules Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 96. Infineon Main Business

Table 97. Infineon Latest Developments

Table 98. Wolfspeed Basic Information, SiC Gel-filled Power Modules Manufacturing Base, Sales Area and Its Competitors

Table 99. Wolfspeed SiC Gel-filled Power Modules Product Portfolios and Specifications

Table 100. Wolfspeed SiC Gel-filled Power Modules Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 101. Wolfspeed Main Business

Table 102. Wolfspeed Latest Developments

Table 103. Rohm Basic Information, SiC Gel-filled Power Modules Manufacturing Base, Sales Area and Its Competitors

Table 104. Rohm SiC Gel-filled Power Modules Product Portfolios and Specifications

Table 105. Rohm SiC Gel-filled Power Modules Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 106. Rohm Main Business

Table 107. Rohm Latest Developments

Table 108. onsemi Basic Information, SiC Gel-filled Power Modules Manufacturing Base, Sales Area and Its Competitors

Table 109. onsemi SiC Gel-filled Power Modules Product Portfolios and Specifications

Table 110. onsemi SiC Gel-filled Power Modules Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 111. onsemi Main Business

Table 112. onsemi Latest Developments

Table 113. BYD Semiconductor Basic Information, SiC Gel-filled Power Modules Manufacturing Base, Sales Area and Its Competitors

Table 114. BYD Semiconductor SiC Gel-filled Power Modules Product Portfolios and Specifications

Table 115. BYD Semiconductor SiC Gel-filled Power Modules Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 116. BYD Semiconductor Main Business

Table 117. BYD Semiconductor Latest Developments

Table 118. Microchip (Microsemi) Basic Information, SiC Gel-filled Power Modules Manufacturing Base, Sales Area and Its Competitors

Table 119. Microchip (Microsemi) SiC Gel-filled Power Modules Product Portfolios and Specifications

Table 120. Microchip (Microsemi) SiC Gel-filled Power Modules Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 121. Microchip (Microsemi) Main Business

Table 122. Microchip (Microsemi) Latest Developments

Table 123. Mitsubishi Electric Basic Information, SiC Gel-filled Power Modules Manufacturing Base, Sales Area and Its Competitors

Table 124. Mitsubishi Electric SiC Gel-filled Power Modules Product Portfolios and Specifications

Table 125. Mitsubishi Electric SiC Gel-filled Power Modules Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 126. Mitsubishi Electric Main Business

Table 127. Mitsubishi Electric Latest Developments

Table 128. Semikron Danfoss Basic Information, SiC Gel-filled Power Modules Manufacturing Base, Sales Area and Its Competitors

Table 129. Semikron Danfoss SiC Gel-filled Power Modules Product Portfolios and Specifications

Table 130. Semikron Danfoss SiC Gel-filled Power Modules Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 131. Semikron Danfoss Main Business

Table 132. Semikron Danfoss Latest Developments

Table 133. Fuji Electric Basic Information, SiC Gel-filled Power Modules Manufacturing Base, Sales Area and Its Competitors

Table 134. Fuji Electric SiC Gel-filled Power Modules Product Portfolios and Specifications

Table 135. Fuji Electric SiC Gel-filled Power Modules Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 136. Fuji Electric Main Business

Table 137. Fuji Electric Latest Developments

Table 138. Toshiba Basic Information, SiC Gel-filled Power Modules Manufacturing

Base, Sales Area and Its Competitors

Table 139. Toshiba SiC Gel-filled Power Modules Product Portfolios and Specifications

Table 140. Toshiba SiC Gel-filled Power Modules Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 141. Toshiba Main Business

Table 142. Toshiba Latest Developments

Table 143. CETC 55 Basic Information, SiC Gel-filled Power Modules Manufacturing Base, Sales Area and Its Competitors

Table 144. CETC 55 SiC Gel-filled Power Modules Product Portfolios and Specifications

Table 145. CETC 55 SiC Gel-filled Power Modules Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 146. CETC 55 Main Business

Table 147. CETC 55 Latest Developments

Table 148. WeEn Semiconductors Basic Information, SiC Gel-filled Power Modules Manufacturing Base, Sales Area and Its Competitors

Table 149. WeEn Semiconductors SiC Gel-filled Power Modules Product Portfolios and Specifications

Table 150. WeEn Semiconductors SiC Gel-filled Power Modules Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 151. WeEn Semiconductors Main Business

Table 152. WeEn Semiconductors Latest Developments

Table 153. BASiC Semiconductor Basic Information, SiC Gel-filled Power Modules Manufacturing Base, Sales Area and Its Competitors

Table 154. BASiC Semiconductor SiC Gel-filled Power Modules Product Portfolios and Specifications

Table 155. BASiC Semiconductor SiC Gel-filled Power Modules Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 156. BASiC Semiconductor Main Business

Table 157. BASiC Semiconductor Latest Developments

Table 158. SemiQ Basic Information, SiC Gel-filled Power Modules Manufacturing Base, Sales Area and Its Competitors

Table 159. SemiQ SiC Gel-filled Power Modules Product Portfolios and Specifications

Table 160. SemiQ SiC Gel-filled Power Modules Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 161. SemiQ Main Business

Table 162. SemiQ Latest Developments

Table 163. Bosch Basic Information, SiC Gel-filled Power Modules Manufacturing Base, Sales Area and Its Competitors

Table 164. Bosch SiC Gel-filled Power Modules Product Portfolios and Specifications

Table 165. Bosch SiC Gel-filled Power Modules Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 166. Bosch Main Business

Table 167. Bosch Latest Developments

Table 168. GE Aerospace Basic Information, SiC Gel-filled Power Modules Manufacturing Base, Sales Area and Its Competitors

Table 169. GE Aerospace SiC Gel-filled Power Modules Product Portfolios and Specifications

Table 170. GE Aerospace SiC Gel-filled Power Modules Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 171. GE Aerospace Main Business

Table 172. GE Aerospace Latest Developments

Table 173. Vishay Intertechnology Basic Information, SiC Gel-filled Power Modules Manufacturing Base, Sales Area and Its Competitors

Table 174. Vishay Intertechnology SiC Gel-filled Power Modules Product Portfolios and Specifications

Table 175. Vishay Intertechnology SiC Gel-filled Power Modules Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 176. Vishay Intertechnology Main Business

Table 177. Vishay Intertechnology Latest Developments

Table 178. StarPower Basic Information, SiC Gel-filled Power Modules Manufacturing Base, Sales Area and Its Competitors

Table 179. StarPower SiC Gel-filled Power Modules Product Portfolios and Specifications

Table 180. StarPower SiC Gel-filled Power Modules Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 181. StarPower Main Business

Table 182. StarPower Latest Developments

Table 183. Yangzhou Yangjie Electronic Technology Basic Information, SiC Gel-filled Power Modules Manufacturing Base, Sales Area and Its Competitors

Table 184. Yangzhou Yangjie Electronic Technology SiC Gel-filled Power Modules Product Portfolios and Specifications

Table 185. Yangzhou Yangjie Electronic Technology SiC Gel-filled Power Modules Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 186. Yangzhou Yangjie Electronic Technology Main Business

Table 187. Yangzhou Yangjie Electronic Technology Latest Developments

Table 188. Guangdong AccoPower Semiconductor Basic Information, SiC Gel-filled Power Modules Manufacturing Base, Sales Area and Its Competitors

Table 189. Guangdong AccoPower Semiconductor SiC Gel-filled Power Modules

## Product Portfolios and Specifications

Table 190. Guangdong AccoPower Semiconductor SiC Gel-filled Power Modules Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 191. Guangdong AccoPower Semiconductor Main Business

Table 192. Guangdong AccoPower Semiconductor Latest Developments

Table 193. Hangzhou Silan Microelectronics Basic Information, SiC Gel-filled Power Modules Manufacturing Base, Sales Area and Its Competitors

Table 194. Hangzhou Silan Microelectronics SiC Gel-filled Power Modules Product Portfolios and Specifications

Table 195. Hangzhou Silan Microelectronics SiC Gel-filled Power Modules Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 196. Hangzhou Silan Microelectronics Main Business

Table 197. Hangzhou Silan Microelectronics Latest Developments

Table 198. United Nova Technology (UNT) Basic Information, SiC Gel-filled Power Modules Manufacturing Base, Sales Area and Its Competitors

Table 199. United Nova Technology (UNT) SiC Gel-filled Power Modules Product Portfolios and Specifications

Table 200. United Nova Technology (UNT) SiC Gel-filled Power Modules Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 201. United Nova Technology (UNT) Main Business

Table 202. United Nova Technology (UNT) Latest Developments

Table 203. InventChip Technology (IVCT) Basic Information, SiC Gel-filled Power Modules Manufacturing Base, Sales Area and Its Competitors

Table 204. InventChip Technology (IVCT) SiC Gel-filled Power Modules Product Portfolios and Specifications

Table 205. InventChip Technology (IVCT) SiC Gel-filled Power Modules Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 206. InventChip Technology (IVCT) Main Business

Table 207. InventChip Technology (IVCT) Latest Developments

Table 208. Leadrive Technology Basic Information, SiC Gel-filled Power Modules Manufacturing Base, Sales Area and Its Competitors

Table 209. Leadrive Technology SiC Gel-filled Power Modules Product Portfolios and Specifications

Table 210. Leadrive Technology SiC Gel-filled Power Modules Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 211. Leadrive Technology Main Business

Table 212. Leadrive Technology Latest Developments

Table 213. HAIMOSIC (SHANGHAI) Basic Information, SiC Gel-filled Power Modules Manufacturing Base, Sales Area and Its Competitors

Table 214. HAIMOSIC (SHANGHAI) SiC Gel-filled Power Modules Product Portfolios and Specifications

Table 215. HAIMOSIC (SHANGHAI) SiC Gel-filled Power Modules Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 216. HAIMOSIC (SHANGHAI) Main Business

Table 217. HAIMOSIC (SHANGHAI) Latest Developments

Table 218. Suzhou Xizhi Technology Basic Information, SiC Gel-filled Power Modules Manufacturing Base, Sales Area and Its Competitors

Table 219. Suzhou Xizhi Technology SiC Gel-filled Power Modules Product Portfolios and Specifications

Table 220. Suzhou Xizhi Technology SiC Gel-filled Power Modules Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 221. Suzhou Xizhi Technology Main Business

Table 222. Suzhou Xizhi Technology Latest Developments

Table 223. Archimedes Semiconductor (Hefei) Basic Information, SiC Gel-filled Power Modules Manufacturing Base, Sales Area and Its Competitors

Table 224. Archimedes Semiconductor (Hefei) SiC Gel-filled Power Modules Product Portfolios and Specifications

Table 225. Archimedes Semiconductor (Hefei) SiC Gel-filled Power Modules Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 226. Archimedes Semiconductor (Hefei) Main Business

Table 227. Archimedes Semiconductor (Hefei) Latest Developments

Table 228. Grecon Semiconductor (Shanghai) Basic Information, SiC Gel-filled Power Modules Manufacturing Base, Sales Area and Its Competitors

Table 229. Grecon Semiconductor (Shanghai) SiC Gel-filled Power Modules Product Portfolios and Specifications

Table 230. Grecon Semiconductor (Shanghai) SiC Gel-filled Power Modules Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 231. Grecon Semiconductor (Shanghai) Main Business

Table 232. Grecon Semiconductor (Shanghai) Latest Developments

Table 233. Hebei Sinopack Electronic Technology Basic Information, SiC Gel-filled Power Modules Manufacturing Base, Sales Area and Its Competitors

Table 234. Hebei Sinopack Electronic Technology SiC Gel-filled Power Modules Product Portfolios and Specifications

Table 235. Hebei Sinopack Electronic Technology SiC Gel-filled Power Modules Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 236. Hebei Sinopack Electronic Technology Main Business

Table 237. Hebei Sinopack Electronic Technology Latest Developments

Table 238. Denso Basic Information, SiC Gel-filled Power Modules Manufacturing Base,

## Sales Area and Its Competitors

Table 239. Denso SiC Gel-filled Power Modules Product Portfolios and Specifications

Table 240. Denso SiC Gel-filled Power Modules Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 241. Denso Main Business

Table 242. Denso Latest Developments

Table 243. GeePak Basic Information, SiC Gel-filled Power Modules Manufacturing Base, Sales Area and Its Competitors

Table 244. GeePak SiC Gel-filled Power Modules Product Portfolios and Specifications

Table 245. GeePak SiC Gel-filled Power Modules Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 246. GeePak Main Business

Table 247. GeePak Latest Developments

Table 248. Minebea Power Semiconductor Device Basic Information, SiC Gel-filled Power Modules Manufacturing Base, Sales Area and Its Competitors

Table 249. Minebea Power Semiconductor Device SiC Gel-filled Power Modules Product Portfolios and Specifications

Table 250. Minebea Power Semiconductor Device SiC Gel-filled Power Modules Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 251. Minebea Power Semiconductor Device Main Business

Table 252. Minebea Power Semiconductor Device Latest Developments

Table 253. MacMic Science & Technolog Basic Information, SiC Gel-filled Power Modules Manufacturing Base, Sales Area and Its Competitors

Table 254. MacMic Science & Technolog SiC Gel-filled Power Modules Product Portfolios and Specifications

Table 255. MacMic Science & Technolog SiC Gel-filled Power Modules Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 256. MacMic Science & Technolog Main Business

Table 257. MacMic Science & Technolog Latest Developments

## List Of Figures

### LIST OF FIGURES

- Figure 1. Picture of SiC Gel-filled Power Modules
- Figure 2. SiC Gel-filled Power Modules Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global SiC Gel-filled Power Modules Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global SiC Gel-filled Power Modules Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. SiC Gel-filled Power Modules Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. SiC Gel-filled Power Modules Sales Market Share by Country/Region (2025)
- Figure 10. SiC Gel-filled Power Modules Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of 1200V Gel-filled SiC Module
- Figure 12. Product Picture of 650-900V Gel-filled SiC Module
- Figure 13. Product Picture of 1700V Gel-filled SiC Module
- Figure 14. Product Picture of 2000-2300V Gel-filled SiC Module
- Figure 15. Product Picture of 3300V and Above Transfer Molded SiC Module
- Figure 16. Global SiC Gel-filled Power Modules Sales Market Share by Voltage Class in 2026
- Figure 17. Global SiC Gel-filled Power Modules Revenue Market Share by Voltage Class (2021-2026)
- Figure 18. Product Picture of Sixpack
- Figure 19. Product Picture of Half-bridge
- Figure 20. Product Picture of Full-Bridge
- Figure 21. Product Picture of Others
- Figure 22. Global SiC Gel-filled Power Modules Sales Market Share by Topology Type in 2026
- Figure 23. Global SiC Gel-filled Power Modules Revenue Market Share by Topology Type (2021-2026)
- Figure 24. Product Picture of HPD
- Figure 25. Product Picture of DCM
- Figure 26. Product Picture of T-PAK
- Figure 27. Product Picture of Others
- Figure 28. Global SiC Gel-filled Power Modules Sales Market Share by Package Type

in 2026

Figure 29. Global SiC Gel-filled Power Modules Revenue Market Share by Package Type (2021-2026)

Figure 30. SiC Gel-filled Power Modules Consumed in Automotive

Figure 31. Global SiC Gel-filled Power Modules Market: Automotive (2021-2026) & (K Units)

Figure 32. SiC Gel-filled Power Modules Consumed in Industrial

Figure 33. Global SiC Gel-filled Power Modules Market: Industrial (2021-2026) & (K Units)

Figure 34. SiC Gel-filled Power Modules Consumed in Household Appliances

Figure 35. Global SiC Gel-filled Power Modules Market: Household Appliances (2021-2026) & (K Units)

Figure 36. SiC Gel-filled Power Modules Consumed in PV/Wind Power/Energy Storage/Power Grid

Figure 37. Global SiC Gel-filled Power Modules Market: PV/Wind Power/Energy Storage/Power Grid (2021-2026) & (K Units)

Figure 38. SiC Gel-filled Power Modules Consumed in UPS/Data Center/Communication

Figure 39. Global SiC Gel-filled Power Modules Market: UPS/Data Center/Communication (2021-2026) & (K Units)

Figure 40. SiC Gel-filled Power Modules Consumed in Rail Transit

Figure 41. Global SiC Gel-filled Power Modules Market: Rail Transit (2021-2026) & (K Units)

Figure 42. SiC Gel-filled Power Modules Consumed in Aviation and Military

Figure 43. Global SiC Gel-filled Power Modules Market: Aviation and Military (2021-2026) & (K Units)

Figure 44. SiC Gel-filled Power Modules Consumed in Others

Figure 45. Global SiC Gel-filled Power Modules Market: Others (2021-2026) & (K Units)

Figure 46. Global SiC Gel-filled Power Modules Sale Market Share by Application (2025)

Figure 47. Global SiC Gel-filled Power Modules Revenue Market Share by Application in 2025

Figure 48. SiC Gel-filled Power Modules Sales by Company in 2025 (K Units)

Figure 49. Global SiC Gel-filled Power Modules Sales Market Share by Company in 2025

Figure 50. SiC Gel-filled Power Modules Revenue by Company in 2025 (\$ millions)

Figure 51. Global SiC Gel-filled Power Modules Revenue Market Share by Company in 2025

Figure 52. Global SiC Gel-filled Power Modules Sales Market Share by Geographic

Region (2021-2026)

Figure 53. Global SiC Gel-filled Power Modules Revenue Market Share by Geographic Region in 2025

Figure 54. Americas SiC Gel-filled Power Modules Sales 2021-2026 (K Units)

Figure 55. Americas SiC Gel-filled Power Modules Revenue 2021-2026 (\$ millions)

Figure 56. APAC SiC Gel-filled Power Modules Sales 2021-2026 (K Units)

Figure 57. APAC SiC Gel-filled Power Modules Revenue 2021-2026 (\$ millions)

Figure 58. Europe SiC Gel-filled Power Modules Sales 2021-2026 (K Units)

Figure 59. Europe SiC Gel-filled Power Modules Revenue 2021-2026 (\$ millions)

Figure 60. Middle East & Africa SiC Gel-filled Power Modules Sales 2021-2026 (K Units)

Figure 61. Middle East & Africa SiC Gel-filled Power Modules Revenue 2021-2026 (\$ millions)

Figure 62. Americas SiC Gel-filled Power Modules Sales Market Share by Country in 2025

Figure 63. Americas SiC Gel-filled Power Modules Revenue Market Share by Country (2021-2026)

Figure 64. Americas SiC Gel-filled Power Modules Sales Market Share by Voltage Class (2021-2026)

Figure 65. Americas SiC Gel-filled Power Modules Sales Market Share by Application (2021-2026)

Figure 66. United States SiC Gel-filled Power Modules Revenue Growth 2021-2026 (\$ millions)

Figure 67. Canada SiC Gel-filled Power Modules Revenue Growth 2021-2026 (\$ millions)

Figure 68. Mexico SiC Gel-filled Power Modules Revenue Growth 2021-2026 (\$ millions)

Figure 69. Brazil SiC Gel-filled Power Modules Revenue Growth 2021-2026 (\$ millions)

Figure 70. APAC SiC Gel-filled Power Modules Sales Market Share by Region in 2025

Figure 71. APAC SiC Gel-filled Power Modules Revenue Market Share by Region (2021-2026)

Figure 72. APAC SiC Gel-filled Power Modules Sales Market Share by Voltage Class (2021-2026)

Figure 73. APAC SiC Gel-filled Power Modules Sales Market Share by Application (2021-2026)

Figure 74. China SiC Gel-filled Power Modules Revenue Growth 2021-2026 (\$ millions)

Figure 75. Japan SiC Gel-filled Power Modules Revenue Growth 2021-2026 (\$ millions)

Figure 76. South Korea SiC Gel-filled Power Modules Revenue Growth 2021-2026 (\$ millions)

Figure 77. Southeast Asia SiC Gel-filled Power Modules Revenue Growth 2021-2026 (\$ millions)

Figure 78. India SiC Gel-filled Power Modules Revenue Growth 2021-2026 (\$ millions)

Figure 79. Australia SiC Gel-filled Power Modules Revenue Growth 2021-2026 (\$ millions)

Figure 80. China Taiwan SiC Gel-filled Power Modules Revenue Growth 2021-2026 (\$ millions)

Figure 81. Europe SiC Gel-filled Power Modules Sales Market Share by Country in 2025

Figure 82. Europe SiC Gel-filled Power Modules Revenue Market Share by Country (2021-2026)

Figure 83. Europe SiC Gel-filled Power Modules Sales Market Share by Voltage Class (2021-2026)

Figure 84. Europe SiC Gel-filled Power Modules Sales Market Share by Application (2021-2026)

Figure 85. Germany SiC Gel-filled Power Modules Revenue Growth 2021-2026 (\$ millions)

Figure 86. France SiC Gel-filled Power Modules Revenue Growth 2021-2026 (\$ millions)

Figure 87. UK SiC Gel-filled Power Modules Revenue Growth 2021-2026 (\$ millions)

Figure 88. Italy SiC Gel-filled Power Modules Revenue Growth 2021-2026 (\$ millions)

Figure 89. Russia SiC Gel-filled Power Modules Revenue Growth 2021-2026 (\$ millions)

Figure 90. Middle East & Africa SiC Gel-filled Power Modules Sales Market Share by Country (2021-2026)

Figure 91. Middle East & Africa SiC Gel-filled Power Modules Sales Market Share by Voltage Class (2021-2026)

Figure 92. Middle East & Africa SiC Gel-filled Power Modules Sales Market Share by Application (2021-2026)

Figure 93. Egypt SiC Gel-filled Power Modules Revenue Growth 2021-2026 (\$ millions)

Figure 94. South Africa SiC Gel-filled Power Modules Revenue Growth 2021-2026 (\$ millions)

Figure 95. Israel SiC Gel-filled Power Modules Revenue Growth 2021-2026 (\$ millions)

Figure 96. Turkey SiC Gel-filled Power Modules Revenue Growth 2021-2026 (\$ millions)

Figure 97. GCC Countries SiC Gel-filled Power Modules Revenue Growth 2021-2026 (\$ millions)

Figure 98. Manufacturing Cost Structure Analysis of SiC Gel-filled Power Modules in 2026

Figure 99. Manufacturing Process Analysis of SiC Gel-filled Power Modules

Figure 100. Industry Chain Structure of SiC Gel-filled Power Modules

Figure 101. Channels of Distribution

Figure 102. Global SiC Gel-filled Power Modules Sales Market Forecast by Region (2027-2032)

Figure 103. Global SiC Gel-filled Power Modules Revenue Market Share Forecast by Region (2027-2032)

Figure 104. Global SiC Gel-filled Power Modules Sales Market Share Forecast by Voltage Class (2027-2032)

Figure 105. Global SiC Gel-filled Power Modules Revenue Market Share Forecast by Voltage Class (2027-2032)

Figure 106. Global SiC Gel-filled Power Modules Sales Market Share Forecast by Application (2027-2032)

Figure 107. Global SiC Gel-filled Power Modules Revenue Market Share Forecast by Application (2027-2032)

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