

# Global Silicon Carbide Bidirectional On-Board Charger Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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## Abstracts

According to our (Global Info Research) latest study, the global Silicon Carbide Bidirectional On-Board Charger market size was valued at US\$ million in 2024 and is forecast to a readjusted size of USD million by 2031 with a CAGR of %during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Silicon carbide bidirectional on-board charger is an on-board charging device that uses silicon carbide power devices to achieve bidirectional power conversion. This charger can not only charge electric vehicle batteries, but also invert the power in electric vehicle batteries for home power supply or feedback to the power grid. The application of SiC technology in these chargers significantly improves the efficiency, power density and reliability of the system.

This report is a detailed and comprehensive analysis for global Silicon Carbide Bidirectional On-Board Charger market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

## Key Features:

Global Silicon Carbide Bidirectional On-Board Charger market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Silicon Carbide Bidirectional On-Board Charger market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Silicon Carbide Bidirectional On-Board Charger market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Silicon Carbide Bidirectional On-Board Charger market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2020-2025

### **The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Silicon Carbide Bidirectional On-Board Charger

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Silicon Carbide Bidirectional On-Board Charger market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include MAHLE, BorgWarner, Onsemi, Valeo, Dilong Technology, VMAX New Energy, Huawei Digital Energy, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

### **Market Segmentation**

Silicon Carbide Bidirectional On-Board Charger market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

#### Market segment by Type

400V

800V

#### Market segment by Application

Commercial Vehicle

Passenger Vehicle

#### Major players covered

MAHLE

BorgWarner

Onsemi

Valeo

Dilong Technology

VMAX New Energy

Huawei Digital Energy

#### Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Silicon Carbide Bidirectional On-Board Charger product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Silicon Carbide Bidirectional On-Board Charger, with price, sales quantity, revenue, and global market share of Silicon Carbide Bidirectional On-Board Charger from 2020 to 2025.

Chapter 3, the Silicon Carbide Bidirectional On-Board Charger competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Silicon Carbide Bidirectional On-Board Charger breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Silicon Carbide Bidirectional On-Board Charger market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces

analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Silicon Carbide Bidirectional On-Board Charger.

Chapter 14 and 15, to describe Silicon Carbide Bidirectional On-Board Charger sales channel, distributors, customers, research findings and conclusion.

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