

Global Silicon Carbide Battery 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 Battery market size was valued at US\$ 271 million in 2024 and is forecast to a readjusted size of USD 473 million by 2031 with a CAGR of 8.3% during review period.

Silicon carbide EV modules are power modules that use silicon carbide semiconductors as switches. Silicon carbide power modules are used to convert electrical energy with high conversion efficiency - power is the product of current and voltage. Why silicon carbide (SiC) power modules are preferred for specific applications. The wide band gap of silicon carbide semiconductors allows for extremely low switching losses when used in MOSFETs, thus allowing for higher switching frequencies than with ordinary silicon devices.

In 2022, the global Silicon Carbide Battery market size reached 213 million and is expected to reach \$401 million by 2029, at a compound annual growth rate (CAGR) of 8.5%. Many companies and research institutions were actively working on advancing SiC battery technology, improving its performance, and reducing production costs. Several companies and investors were funding research and development initiatives to bring SiC batteries closer to commercial viability. Some pilot projects and small-scale deployments of SiC batteries were underway to evaluate their performance in real-world applications. SiC batteries faced competition from established lithium-ion battery technologies, which have been extensively developed and widely adopted in various industries. Companies were forming strategic partnerships to accelerate the development and commercialization of SiC batteries. The market demand for advanced battery technologies, driven by the growing adoption of electric vehicles and renewable energy systems, provided opportunities for SiC battery manufacturers to enter the

market.

This report is a detailed and comprehensive analysis for global Silicon Carbide Battery 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 Battery market size and forecasts, in consumption value (\$ Million), sales quantity (Mw), and average selling prices (US\$/W), 2020-2031

Global Silicon Carbide Battery market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Mw), and average selling prices (US\$/W), 2020-2031

Global Silicon Carbide Battery market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Mw), and average selling prices (US\$/W), 2020-2031

Global Silicon Carbide Battery market shares of main players, shipments in revenue (\$ Million), sales quantity (Mw), and ASP (US\$/W), 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 Battery

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 Battery 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 Volkswagen Group, Silicon Power Corporation, Hitachi Energy Ltd, Infineon, STMicroelectronics, X-FAB Silicon Foundries SE, Power Integrations, NexTech Materials, Kallex Company Ltd, Marelli, etc.

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

Market Segmentation

Silicon Carbide Battery 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

Silicon Carbide Lithium Ion Battery

Silicon Carbide Sodium Ion Battery

Market segment by Application

Mechanical Engineering

Automotive Industry

Aerospace

Oil And Gas

Chemical Industry

Medical Technology

Electrical Industry

Major players covered

Volkswagen Group

Silicon Power Corporation

Hitachi Energy Ltd

Infineon

STMicroelectronics

X-FAB Silicon Foundries SE

Power Integrations

NexTech Materials

Kallex Company Ltd

Marelli

On Semi

ROHM

Wolfspeed

Showa Denko

Episil Holding Inc

Mitsubishi Electric Power Products Inc.

CIL

Cisoid

Coherent Corp.

Alpha Power Solutions (APS)

Avnet, Inc.

GS Yuasa Corporation

Toshiba Corporation

Texas Instruments

Semikron International GmbH

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 Battery product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Silicon Carbide Battery 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 Battery 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 Battery.

Chapter 14 and 15, to describe Silicon Carbide Battery sales channel, distributors, customers, research findings and conclusion.

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