

Global High-end Power Devices Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global High-end Power Devices market size was valued at US\$ 32820 million in 2025 and is forecast to a readjusted size of US\$ 58450 million by 2032 with a CAGR of 8.7% during review period.

High-end power devices are mainly IGBTs and MOSFETs, which are divided into discrete devices and modules. Among them, MOSFET can be divided into Si MOSFET and SiC MOSFET, but currently the mainstream is still Si MOSFET.

SiC MOSFET mainly includes 650V, 750V, 900V, 1200V, 1700V and 3300V SiC Module. The core manufacturers are mainly used in the field of electric vehicles. Currently, the world's major manufacturers of SiC modules include STMicroelectronics, Infineon, Wolfspeed, Rohm, Onsemi, BYD, Microchip (Microsemi), Mitsubishi Electric and Semikron Danfoss. The top3 producers in the world account for approximately 70% of the market share.

The main products of SiC MOSFET discrete devices include 650V, 750V, 900V, 1200V and 1700V.

Currently, the world's major SiC MOSFET discrete devices manufacturers include Law Semiconductor, Infineon, Wolfspeed and Rohm. The top five manufacturers account for about 80% of the market share.

The current global market is basically dominated by manufacturers in Europe, the United States and Japan. The leading global silicon carbide power device

manufacturers mainly include STMicroelectronics, Infineon, Wolfspeed and Rohm, etc. The Top 3 occupy approximately 64% of the global market share.

For example, the main model of STMicroelectronics' SiC MOSFET module is ACEPACK DRIVE (ADP series), which is mainly used for main inverters. The main model of Infineon's SiC MOSFET module is CoolSiC, which can be used in charging piles, UPS, etc.

This report is a detailed and comprehensive analysis for global High-end Power Devices 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 High-end Power Devices market size and forecasts, in consumption value (\$ Million), sales quantity (M Units), and average selling prices (USD/Unit), 2021-2032

Global High-end Power Devices market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (M Units), and average selling prices (USD/Unit), 2021-2032

Global High-end Power Devices market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (M Units), and average selling prices (USD/Unit), 2021-2032

Global High-end Power Devices market shares of main players, shipments in revenue (\$ Million), sales quantity (M Units), and ASP (USD/Unit), 2021-2026

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 High-end Power Devices

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 High-end Power Devices 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 Infineon, Mitsubishi Electric (Vincotech), Fuji Electric, Semikron Danfoss, Hitachi Power Semiconductor Device, Bosch, onsemi, Toshiba, Littelfuse (IXYS), Microchip (Microsemi), etc.

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

Market Segmentation

High-end Power Devices market is split by Type and by Application. For the period 2021-2032, 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

IGBT Discrete

IGBT Module

MOSFET Discrete

MOSFET Module

Market segment by Application

NEV

Charging Pile

Industrial Control

PV, Energy Storage and Wind

UPS, Data Centers and Servers

Rail Transit

Others

Major players covered

Infineon

Mitsubishi Electric (Vincotech)

Fuji Electric

Semikron Danfoss

Hitachi Power Semiconductor Device

Bosch

onsemi

Toshiba

Littelfuse (IXYS)

Microchip (Microsemi)

STMicroelectronics

Vishay

Denso

SanRex Corporation

Cisoid

StarPower Semiconductor

BYD Semiconductor

Zhuzhou CRRC Times Electric

Hangzhou Silan Microelectronics

MacMic Science & Technology

China Resources Microelectronics Limited

Yangzhou Yangjie Electronic Technology

EcoSemitek

CETC-55

Shenzhen BASiC Semiconductor

SemiQ

Alpha & Omega Semiconductor

GE Aerospace

Wolfspeed

Rohm

Navitas (GeneSiC)

Wuxi NCE Power

Shanghai Super Semiconductor

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 High-end Power Devices product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of High-end Power Devices, with price, sales quantity, revenue, and global market share of High-end Power Devices from 2021 to 2026.

Chapter 3, the High-end Power Devices competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the High-end Power Devices breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and High-end Power Devices market forecast, by regions, by Type, and by

Application, with sales and revenue, from 2027 to 2032.

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 High-end Power Devices.

Chapter 14 and 15, to describe High-end Power Devices sales channel, distributors, customers, research findings and conclusion.

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