

Global Power Electronics Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Power Electronics market size is expected to reach \$ 119420 million by 2032, rising at a market growth of 11.4% CAGR during the forecast period (2026-2032).

The core manufacturers of China Power Electronics include Infineon, Onsemi and STMicroelectronics. The top three companies have a market share of about 31%. In terms of product types, MOSFET is the largest segment with approximately 15% market share. In terms of applications, Automotive and Transportation is the largest downstream segment, accounting for about 34 percent of the market.

This report studies the global Power Electronics production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Power Electronics and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Power Electronics that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Power Electronics total production and demand, 2021-2032, (K Units)

Global Power Electronics total production value, 2021-2032, (USD Million)

Global Power Electronics production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Power Electronics consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Power Electronics domestic production, consumption, key domestic manufacturers and share

Global Power Electronics production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Power Electronics production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Power Electronics production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Power Electronics market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Infineon, Onsemi, STMicroelectronics, Mitsubishi Electric (Vincotech), Nexperia, Vishay Intertechnology, Toshiba, Fuji Electric, Rohm, Renesas Electronics, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Power Electronics market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Power Electronics Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Power Electronics Market, Segmentation by Type:

Diodes/Rectifier (Si & SiC)

IGBT

MOSFET (Si & SiC)

BJT

Thyristor

GaN HEMT

Others

Global Power Electronics Market, Segmentation by Application:

Industrial Control

Automotives & Charging Piles

Consumer Electronics

UPS & Data Center

PV, Energy Storage & Wind

Rail Transit

Communication

Others

Companies Profiled:

Infineon

Onsemi

STMicroelectronics

Mitsubishi Electric (Vincotech)

Nexperia

Vishay Intertechnology

Toshiba

Fuji Electric

Rohm

Renesas Electronics

Diodes Incorporated

Littelfuse (IXYS)

Alpha & Omega Semiconductor

Semikron Danfoss

Hitachi Power Semiconductor Device

Microchip

Sanken Electric

Semtech

MagnaChip

Bosch

Texas Instruments

KEC Corporation

Cree (Wolfspeed)

PANJIT Group

Unisonic Technologies (UTC)

Niko Semiconductor

Hangzhou Silan Microelectronics

Yangzhou Yangjie Electronic Technology

China Resources Microelectronics Limited

Jilin Sino-Microelectronics

Key Questions Answered:

1. How big is the global Power Electronics market?
2. What is the demand of the global Power Electronics market?
3. What is the year over year growth of the global Power Electronics market?
4. What is the production and production value of the global Power Electronics market?
5. Who are the key producers in the global Power Electronics market?
6. What are the growth factors driving the market demand?

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