

Power Electronics - Global Market Outlook (2017-2026)

<https://marketpublishers.com/r/PD9EF6C8711EN.html>

Date: September 2018

Pages: 181

Price: US\$ 4,150.00 (Single User License)

ID: PD9EF6C8711EN

Abstracts

According to Statistics MRC, the Global Power Electronics market is expected to grow from \$35.02 billion in 2017 to reach \$64.98 billion by 2026 with a CAGR of 7.1%. Rising need for power management devices, growing adoption of power electronics in electric vehicles, increasing awareness of the impact of fossil fuel depletion are some of the factors fueling the market growth. However, high infrastructure deployment cost and current leakage at high temperature are some of the factors hindering the market growth. One of the major opportunities in the market is increasing industrialization in developing economies.

Power electronics is the application of solid-state electronics to the control and conversion of electric power. It is used to control the fluctuated power from one device to other power devices such as diodes, transistors, and thyristors. In addition, power electronics can control the flow of energy in unidirectional as well as bidirectional manner, depending upon the usage. Presently, it is used in renewable resources and electric vehicles to develop switching speed and prevent power loss.

Based on Application, transportation segment holds the significant growth during the forecast period. Factors such as increasing utilize of electronic devices, significant fabrication of HEVs and EVs and growing demand for electric vehicle charging stations are boosting the growth of this segment. By End user, automotive segment has acquired the significant growth during the forecast period due to growing concerns over environmental pollution.

By geography, Asia Pacific has been the fastest-growing region during the forecast period. Due to the improvement in power transmission and use of renewable energy and increasing demand of industrial and energy & power verticals are some of the factors driving the market in this region.

Some of the key players in the Power Electronics market include Siemens AG, Mitsubishi Electric, Toshiba, Texas Instruments, Infineon Technologies, ABB Group, Rockwell Automation, NXP Semiconductors N.V., STMicroelectronics N.V., Vishay Intertechnology, Inc., Qualcomm, Inc., Fuji Electric Co., Ltd, Renesas Electronics Corp., ON Semiconductor Corp., Microchip Technology, ROHM Semiconductor, Littelfuse, Analog Devices and Hitachi.

Device Types Covered:

Power Discrete

Power IC

Power Module

AC-DC converters

DC-DC converters

AC-AC converters

DC-AC converters

Static switches

Materials Covered:

Silicon Carbide (SiC)

Gallium Nitride (GaN)

Silicon (Si)

Other Materials

Applications Covered:

Rail Traction

Renewable

Power Management

Inverter & Uninterruptible Power Supply (UPS)

Drives

Solar power

Wind power

Transportation

Other Applications

End Users Covered:

Aerospace and Defense

Energy and Power

Industrial

Information and Communications Technology

Automotive

Medical Devices

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

WHAT OUR REPORT OFFERS:

Market share assessments for the regional and country level segments

Market share analysis of the top industry players

Strategic recommendations for the new entrants

Market forecasts for a minimum of 9 years of all the mentioned segments, sub segments and the regional markets

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends.

Company profiling with detailed strategies, financials, and recent developments

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