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Voltage Regulators Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2022-2027

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Abstracts

The global voltage regulators market reached a value of US$ 2.7 Billion in 2021. Looking forward, IMARC Group expects the market to reach US$ 3.6 Billion by 2027, exhibiting a CAGR of 5% during 2022-2027. Keeping in mind the uncertainties of COVID-19, we are continuously tracking and evaluating the direct as well as the indirect influence of the pandemic on different end use industries. These insights are included in the report as a major market contributor.

A voltage regulator refers to a mechanical device that provides fixed and constant voltage output despite fluctuating load or input voltage. Two of the most commonly used voltage regulators include linear and switching regulators. Linear regulators, such as series and shunt regulators, automatically adjust the resistance through a feedback loop to maintain the output voltage. On the other hand, switching regulators, such as step-down and inverter voltage regulators, use a switching element to transform the current into a pulsed voltage. These regulators offer various advantages, such as low output ripple voltage, fast response time to load or change lines and minimal magnetic interference and noise. As a result, they find extensive applications in the manufacturing of computers, alternators, power generators and alternate or direct (AC/DC) regulators.

Rapid industrialization, especially in developing economies, and the increasing demand for power and electricity from the residential and commercial sectors, represent as the key factors driving the growth of the market. Voltage regulators are installed in substations and distribution lines to provide steady voltage and ensure uninterrupted power supply. Furthermore, the increasing demand for consumer electronics and automobiles that use voltage regulators in smart electronic devices is also driving the market growth. Additionally, various technological advancements, such as the

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development of electronic voltage regulators, are acting as other growth-inducing factors. Electronic variants have a stable voltage source that blocks the ripple voltage and consist of additional circuits for protection from short circuits, thermal shutdowns and overvoltage. Other factors, including the installation of new and upgradation of existing energy transmission and distribution (T&D) networks, along with the implementation of favorable government policies for voltage regulation, are anticipated to drive the market further.

Key Market Segmentation:
IMARC Group provides an analysis of the key trends in each sub-segment of the global voltage regulators market, along with forecasts at the global, regional and country level from 2022-2027. Our report has categorized the market based on topology, type and end use industry.

Breakup by Topology:

Electro-mechanical Voltage Regulation
Electronic Tap-Switching Voltage Regulation
Ferro-resonant Voltage Regulation

Breakup by Type:

Linear Voltage Regulator
Breakup by Connection Type
Series
Shunt
Breakup by Product Type
Low Drop Out (LDO)
Standard
Switching Voltage Regulator
Breakup by Product Type
Step-Down (Buck)
Step-Up (Boost)
Step-Down/Step-Up (Buck-Boost)
Inverting

Breakup by End Use Industry:

Electronics

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Power Transmission and Distribution
Automotive
Industrial Automation
Others

Breakup by Region:

North America
United States
Canada
Asia Pacific
China
Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:
The report has also analysed the competitive landscape of the market with some of the key players being ABB Ltd., Analog Devices Inc., Eaton Corporation Inc., General Electric Company, Howard Industries Inc., Infineon Technologies AG, J. Schneider Elektrotechnik GmbH, NXP Semiconductors NV, Schweitzer Engineering Laboratories Inc., Siemens AG, STMicroelectronics SA, Texas Instruments Incorporated and Toshiba Corporation. Key Questions Answered in This Report

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1. What is the expected growth rate of the global voltage regulators market?
2. What are the key factors driving the global voltage regulators market?
3. What has been the impact of COVID-19 on the global voltage regulators market?
4. What is the breakup of the global voltage regulators market based on the topology?
5. What is the breakup of the global voltage regulators market based on the type?
6. What is the breakup of the global voltage regulators market based on the end use industry?
7. What are the key regions in the global voltage regulators market?
8. Who are the key players/companies in the global voltage regulators market?

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