

Voltage Regulators Market Report by Topology (Electro-mechanical Voltage Regulation, Electronic Tap-Switching Voltage Regulation, Ferro-resonant Voltage Regulation), Type (Linear Voltage Regulator, Switching Voltage Regulator), End Use Industry (Electronics, Power Transmission and Distribution, Automotive, Industrial Automation, and Others), and Region 2023-2028

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Abstracts

The global voltage regulators market size reached US\$ 2.8 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 3.8 Billion by 2028, exhibiting a growth rate (CAGR) of 5.2% during 2022-2028.

A voltage regulator is an integrated circuit (IC) that provides a constant fixed output voltage despite changing the load or input voltage. They maintain the voltages from a power supply within a range compatible with the other electrical components. They can be used together to power sensors, operational amplifiers (op-amps), and other electronic modules that need both voltages. They assist in displaying protective functions, such as overvoltage protection, short circuit protection, thermal shutdown, and current limiting. As a result, they find extensive applications in the automotive, electronics, automation, and power industries.

There is an increase in the demand for smart electronic products, such as laptops, coffee makers, grillers, toasters, and computers, on account of rapid urbanization and expanding purchasing power of the consumer. This, in confluence with the thriving electronics industry, represents one of the major factors bolstering the market growth. In addition, the rising usage of electricity in residential, commercial, and industrial spaces is catalyzing the demand for voltage regulators worldwide. It can also be attributed to

the growing installation of heating, ventilation, and air conditioning (HVAC) systems. Moreover, governing agencies of several countries are investing in the development of smart cities, which, in turn, is strengthening the market growth. Apart from this, voltage regulators are used in the major components of passenger and commercial vehicles. This, along with the increasing focus on improving passenger and driver safety, is positively influencing the market. Furthermore, the integration of electronic voltage regulators that can help provide a stable voltage source and contain additional circuits for protection from short circuits, thermal shutdowns, and overvoltage is anticipated to create a positive outlook for the market.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global voltage regulators market report, along with forecasts at the global, regional and country level from 2023-2028. 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

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

The Asia Pacific holds the majority of the global voltage regulators market share due to the surging consumption of electricity in the region.

Competitive Landscape:

The competitive landscape of the market has been analyzed in the report, along with the detailed profiles of the major players operating in the industry. Some of these players are ABB Ltd, Analog Devices, Inc., Eaton Corporation plc, The General Electric Company, Howard Industries, Infineon Technologies AG, J. Schneider Elektrotechnik GmbH, NXP Semiconductors N.V., Schweitzer Engineering Laboratories, Inc., Siemens Aktiengesellschaft, STMicroelectronics SA, Texas Instruments Inc., and Toshiba Corporation.

Key Questions Answered in This Report

1. What is the expected growth rate of the global voltage regulators market during 2023-2028?
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?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL VOLTAGE REGULATORS MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY TOPOLOGY

- 6.1 Electro-mechanical Voltage Regulation
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 Electronic Tap-Switching Voltage Regulation
 - 6.2.1 Market Trends

- 6.2.2 Market Forecast
- 6.3 Ferro-resonant Voltage Regulation
 - 6.3.1 Market Trends
 - 6.3.2 Market Forecast

7 MARKET BREAKUP BY TYPE

- 7.1 Linear Voltage Regulator
 - 7.1.1 Market Trends
 - 7.1.2 Market Breakup by Connection Type
 - 7.1.2.1 Series
 - 7.1.2.2 Shunt
 - 7.1.3 Market Breakup by Product Type
 - 7.1.3.1 Low Drop Out (LDO)
 - 7.1.3.2 Standard
 - 7.1.4 Market Forecast
- 7.2 Switching Voltage Regulator
 - 7.2.1 Market Trends
 - 7.2.2 Market Breakup by Product Type
 - 7.2.2.1 Step-Down (Buck)
 - 7.2.2.2 Step-Up (Boost)
 - 7.2.2.3 Step-Down/Step-Up (Buck-Bost)
 - 7.2.2.4 Inverting
 - 7.2.3 Market Forecast

8 MARKET BREAKUP BY END USE INDUSTRY

- 8.1 Electronics
 - 8.1.1 Market Trends
 - 8.1.2 Market Forecast
- 8.2 Power Transmission and Distribution
 - 8.2.1 Market Trends
 - 8.2.2 Market Forecast
- 8.3 Automotive
 - 8.3.1 Market Trends
 - 8.3.2 Market Forecast
- 8.4 Industrial Automation
 - 8.4.1 Market Trends
 - 8.4.2 Market Forecast

8.5 Others

8.5.1 Market Trends

8.5.2 Market Forecast

9 MARKET BREAKUP BY REGION

9.1 North America

9.1.1 United States

9.1.1.1 Market Trends

9.1.1.2 Market Forecast

9.1.2 Canada

9.1.2.1 Market Trends

9.1.2.2 Market Forecast

9.2 Asia Pacific

9.2.1 China

9.2.1.1 Market Trends

9.2.1.2 Market Forecast

9.2.2 Japan

9.2.2.1 Market Trends

9.2.2.2 Market Forecast

9.2.3 India

9.2.3.1 Market Trends

9.2.3.2 Market Forecast

9.2.4 South Korea

9.2.4.1 Market Trends

9.2.4.2 Market Forecast

9.2.5 Australia

9.2.5.1 Market Trends

9.2.5.2 Market Forecast

9.2.6 Indonesia

9.2.6.1 Market Trends

9.2.6.2 Market Forecast

9.2.7 Others

9.2.7.1 Market Trends

9.2.7.2 Market Forecast

9.3 Europe

9.3.1 Germany

9.3.1.1 Market Trends

9.3.1.2 Market Forecast

- 9.3.2 France
 - 9.3.2.1 Market Trends
 - 9.3.2.2 Market Forecast
- 9.3.3 United Kingdom
 - 9.3.3.1 Market Trends
 - 9.3.3.2 Market Forecast
- 9.3.4 Italy
 - 9.3.4.1 Market Trends
 - 9.3.4.2 Market Forecast
- 9.3.5 Spain
 - 9.3.5.1 Market Trends
 - 9.3.5.2 Market Forecast
- 9.3.6 Russia
 - 9.3.6.1 Market Trends
 - 9.3.6.2 Market Forecast
- 9.3.7 Others
 - 9.3.7.1 Market Trends
 - 9.3.7.2 Market Forecast
- 9.4 Latin America
 - 9.4.1 Brazil
 - 9.4.1.1 Market Trends
 - 9.4.1.2 Market Forecast
 - 9.4.2 Mexico
 - 9.4.2.1 Market Trends
 - 9.4.2.2 Market Forecast
 - 9.4.3 Others
 - 9.4.3.1 Market Trends
 - 9.4.3.2 Market Forecast
- 9.5 Middle East and Africa
 - 9.5.1 Market Trends
 - 9.5.2 Market Breakup by Country
 - 9.5.3 Market Forecast

10 SWOT ANALYSIS

- 10.1 Overview
- 10.2 Strengths
- 10.3 Weaknesses
- 10.4 Opportunities

10.5 Threats

11 VALUE CHAIN ANALYSIS

12 PORTERS FIVE FORCES ANALYSIS

12.1 Overview

12.2 Bargaining Power of Buyers

12.3 Bargaining Power of Suppliers

12.4 Degree of Competition

12.5 Threat of New Entrants

12.6 Threat of Substitutes

13 PRICE ANALYSIS

14 COMPETITIVE LANDSCAPE

14.1 Market Structure

14.2 Key Players

14.3 Profiles of Key Players

14.3.1 ABB Ltd.

14.3.1.1 Company Overview

14.3.1.2 Product Portfolio

14.3.1.3 Financials

14.3.1.4 SWOT Analysis

14.3.2 Analog Devices Inc.

14.3.2.1 Company Overview

14.3.2.2 Product Portfolio

14.3.2.3 Financials

14.3.2.4 SWOT Analysis

14.3.3 Eaton Corporation Inc.

14.3.3.1 Company Overview

14.3.3.2 Product Portfolio

14.3.3.3 Financials

14.3.3.4 SWOT Analysis

14.3.4 General Electric Company

14.3.4.1 Company Overview

- 14.3.4.2 Product Portfolio
- 14.3.4.3 Financials
- 14.3.4.4 SWOT Analysis
- 14.3.5 Howard Industries Inc.
 - 14.3.5.1 Company Overview
 - 14.3.5.2 Product Portfolio
- 14.3.6 Infineon Technologies AG
 - 14.3.6.1 Company Overview
 - 14.3.6.2 Product Portfolio
 - 14.3.6.3 Financials
 - 14.3.6.4 SWOT Analysis
- 14.3.7 J. Schneider Elektrotechnik GmbH
 - 14.3.7.1 Company Overview
 - 14.3.7.2 Product Portfolio
- 14.3.8 NXP Semiconductors NV
 - 14.3.8.1 Company Overview
 - 14.3.8.2 Product Portfolio
 - 14.3.8.3 Financials
 - 14.3.8.4 SWOT Analysis
- 14.3.9 Schweitzer Engineering Laboratories Inc.
 - 14.3.9.1 Company Overview
 - 14.3.9.2 Product Portfolio
 - 14.3.9.3 SWOT Analysis
- 14.3.10 Siemens AG
 - 14.3.10.1 Company Overview
 - 14.3.10.2 Product Portfolio
 - 14.3.10.3 Financials
 - 14.3.10.4 SWOT Analysis
- 14.3.11 STMicroelectronics SA
 - 14.3.11.1 Company Overview
 - 14.3.11.2 Product Portfolio
 - 14.3.11.3 Financials
 - 14.3.11.4 SWOT Analysis
- 14.3.12 Texas Instruments Incorporated
 - 14.3.12.1 Company Overview
 - 14.3.12.2 Product Portfolio
 - 14.3.12.3 Financials
 - 14.3.12.4 SWOT Analysis
- 14.3.13 Toshiba Corporation

14.3.13.1 Company Overview

14.3.13.2 Product Portfolio

14.3.13.3 Financials

14.3.13.4 SWOT Analysis

List Of Tables

LIST OF TABLES

Table 1: Global: Voltage Regulators Market: Key Industry Highlights, 2022 and 2028

Table 2: Global: Voltage Regulators Market Forecast: Breakup by Topology (in Million US\$), 2023-2028

Table 3: Global: Voltage Regulators Market Forecast: Breakup by Type (in Million US\$), 2023-2028

Table 4: Global: Voltage Regulators Market Forecast: Breakup by End Use Industry (in Million US\$), 2023-2028

Table 5: Global: Voltage Regulators Market Forecast: Breakup by Region (in Million US\$), 2023-2028

Table 6: Global: Voltage Regulators Market: Competitive Structure

Table 7: Global: Voltage Regulators Market: Key Players

List Of Figures

LIST OF FIGURES

- Figure 1: Global: Voltage Regulators Market: Major Drivers and Challenges
- Figure 2: Global: Voltage Regulators Market: Sales Value (in Billion US\$), 2017-2022
- Figure 3: Global: Voltage Regulators Market: Breakup by Topology (in %), 2022
- Figure 4: Global: Voltage Regulators Market: Breakup by Type (in %), 2022
- Figure 5: Global: Linear Voltage Regulators Market: Breakup by Connection Type (in %), 2022
- Figure 6: Global: Linear Voltage Regulators Market: Breakup by Product Type (in %), 2022
- Figure 7: Global: Switching Voltage Regulators Market: Breakup by Product Type (in %), 2022
- Figure 8: Global: Voltage Regulators Market: Breakup by End Use Industry (in %), 2022
- Figure 9: Global: Voltage Regulators Market: Breakup by Region (in %), 2022
- Figure 10: Global: Voltage Regulators Market Forecast: Sales Value (in Billion US\$), 2023-2028
- Figure 11: Global: Voltage Regulators (Electro-mechanical Voltage Regulation) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 12: Global: Voltage Regulators (Electro-mechanical Voltage Regulation) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 13: Global: Voltage Regulators (Electronic Tap-Switching Voltage Regulation) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 14: Global: Voltage Regulators (Electronic Tap-Switching Voltage Regulation) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 15: Global: Voltage Regulators (Ferro-resonant Voltage Regulation) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 16: Global: Voltage Regulators (Ferro-resonant Voltage Regulation) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 17: Global: Voltage Regulators (Linear Voltage Regulator) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 18: Global: Voltage Regulators (Linear Voltage Regulator) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 19: Global: Voltage Regulators (Switching Voltage Regulator) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 20: Global: Voltage Regulators (Switching Voltage Regulator) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 21: Global: Voltage Regulators (Electronics) Market: Sales Value (in Million

US\$), 2017 & 2022

Figure 22: Global: Voltage Regulators (Electronics) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 23: Global: Voltage Regulators (Power Transmission and Distribution) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 24: Global: Voltage Regulators (Power Transmission and Distribution) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 25: Global: Voltage Regulators (Automotive) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 26: Global: Voltage Regulators (Automotive) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 27: Global: Voltage Regulators (Industrial Automation) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 28: Global: Voltage Regulators (Industrial Automation) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 29: Global: Voltage Regulators (Other End Use Industries) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 30: Global: Voltage Regulators (Other End Use Industries) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 31: North America: Voltage Regulators Market: Sales Value (in Million US\$), 2017 & 2022

Figure 32: North America: Voltage Regulators Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 33: United States: Voltage Regulators Market: Sales Value (in Million US\$), 2017 & 2022

Figure 34: United States: Voltage Regulators Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 35: Canada: Voltage Regulators Market: Sales Value (in Million US\$), 2017 & 2022

Figure 36: Canada: Voltage Regulators Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 37: Asia Pacific: Voltage Regulators Market: Sales Value (in Million US\$), 2017 & 2022

Figure 38: Asia Pacific: Voltage Regulators Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 39: China: Voltage Regulators Market: Sales Value (in Million US\$), 2017 & 2022

Figure 40: China: Voltage Regulators Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 41: Japan: Voltage Regulators Market: Sales Value (in Million US\$), 2017 &

2022

Figure 42: Japan: Voltage Regulators Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 43: India: Voltage Regulators Market: Sales Value (in Million US\$), 2017 & 2022

Figure 44: India: Voltage Regulators Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 45: South Korea: Voltage Regulators Market: Sales Value (in Million US\$), 2017 & 2022

Figure 46: South Korea: Voltage Regulators Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 47: Australia: Voltage Regulators Market: Sales Value (in Million US\$), 2017 & 2022

Figure 48: Australia: Voltage Regulators Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 49: Indonesia: Voltage Regulators Market: Sales Value (in Million US\$), 2017 & 2022

Figure 50: Indonesia: Voltage Regulators Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 51: Others: Voltage Regulators Market: Sales Value (in Million US\$), 2017 & 2022

Figure 52: Others: Voltage Regulators Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 53: Europe: Voltage Regulators Market: Sales Value (in Million US\$), 2017 & 2022

Figure 54: Europe: Voltage Regulators Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 55: Germany: Voltage Regulators Market: Sales Value (in Million US\$), 2017 & 2022

Figure 56: Germany: Voltage Regulators Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 57: France: Voltage Regulators Market: Sales Value (in Million US\$), 2017 & 2022

Figure 58: France: Voltage Regulators Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 59: United Kingdom: Voltage Regulators Market: Sales Value (in Million US\$), 2017 & 2022

Figure 60: United Kingdom: Voltage Regulators Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 61: Italy: Voltage Regulators Market: Sales Value (in Million US\$), 2017 & 2022

Figure 62: Italy: Voltage Regulators Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 63: Spain: Voltage Regulators Market: Sales Value (in Million US\$), 2017 & 2022

Figure 64: Spain: Voltage Regulators Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 65: Russia: Voltage Regulators Market: Sales Value (in Million US\$), 2017 & 2022

Figure 66: Russia: Voltage Regulators Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 67: Others: Voltage Regulators Market: Sales Value (in Million US\$), 2017 & 2022

Figure 68: Others: Voltage Regulators Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 69: Latin America: Voltage Regulators Market: Sales Value (in Million US\$), 2017 & 2022

Figure 70: Latin America: Voltage Regulators Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 71: Brazil: Voltage Regulators Market: Sales Value (in Million US\$), 2017 & 2022

Figure 72: Brazil: Voltage Regulators Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 73: Mexico: Voltage Regulators Market: Sales Value (in Million US\$), 2017 & 2022

Figure 74: Mexico: Voltage Regulators Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 75: Others: Voltage Regulators Market: Sales Value (in Million US\$), 2017 & 2022

Figure 76: Others: Voltage Regulators Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 77: Middle East and Africa: Voltage Regulators Market: Sales Value (in Million US\$), 2017 & 2022

Figure 78: Middle East and Africa: Voltage Regulators Market Breakup by Country (in %), 2022

Figure 79: Middle East and Africa: Voltage Regulators Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 80: Global: Voltage Regulators Industry: SWOT Analysis

Figure 81: Global: Voltage Regulators Industry: Value Chain Analysis

Figure 82: Global: Voltage Regulators Industry: Porter's Five Forces Analysis

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