

Global General-Purpose Variable-frequency Drive Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global General-Purpose Variable-frequency Drive market size is expected to reach \$ 2968 million by 2032, rising at a market growth of 4.9% CAGR during the forecast period (2026-2032).

A General-Purpose Variable-frequency Drive (VFD) is a universal AC motor drive designed to control the speed, torque, and direction of standard induction motors and permanent-magnet motors across a wide range of industrial and commercial applications. Unlike application-specific drives, general-purpose VFDs provide flexible, configurable functions including energy-saving control, soft-start, overload protection, PID control, and multi-mode communication for pumps, fans, conveyors, compressors, and building systems. They balance cost-effectiveness and performance, offering reliable motor control through V/f, vector control, and sensorless algorithms, making them one of the most widely deployed drive categories in industrial automation.

The general-purpose VFD industry chain begins with upstream suppliers of IGBT and SiC power modules, capacitors, controllers, inductors, PCBs, enclosures, and cooling systems; moves through midstream drive manufacturers that design power circuits, implement vector-control algorithms, assemble inverter modules, integrate communication buses (Modbus, CANopen, EtherCAT), and perform safety/EMC testing; and concludes with downstream OEMs, HVAC integrators, building automation contractors, industrial machinery manufacturers, and distribution partners that deploy these flexible VFDs across general industrial processing, energy-saving upgrades, and commercial equipment applications worldwide.

Global projects include expansions of low-voltage VFD production lines in China and India to meet SME equipment demand, new factories in Southeast Asia focused on compact HVAC and pump VFDs, European investments in energy-efficient vector-control drive R&D, U.S. initiatives to produce general-purpose VFDs for municipal water and building-infrastructure modernization, partnerships between semiconductor

suppliers and drive companies to secure SiC-based device supply, and large-scale pump/fan retrofit programs in the Middle East and Asia scheduled for 2025-2028 as governments prioritize energy-efficiency upgrades.

2025 Global Market sales Volume: 4.8 million units, Average Global Market Price: 426 USD per unit, Market Average Gross Profit Margin: 25%.

This report studies the global General-Purpose Variable-frequency Drive production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for General-Purpose Variable-frequency Drive 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 General-Purpose Variable-frequency Drive that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global General-Purpose Variable-frequency Drive total production and demand, 2021-2032, (K Units)

Global General-Purpose Variable-frequency Drive total production value, 2021-2032, (USD Million)

Global General-Purpose Variable-frequency Drive production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global General-Purpose Variable-frequency Drive consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: General-Purpose Variable-frequency Drive domestic production, consumption, key domestic manufacturers and share

Global General-Purpose Variable-frequency Drive production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global General-Purpose Variable-frequency Drive production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global General-Purpose Variable-frequency Drive production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global General-Purpose Variable-frequency Drive 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 OMRON, Bosch Rexroth, ABB, Siemens, Schneider Electric, Yaskawa Electric, Rockwell Automation (Allen-Bradley), Delta Electronics, Fuji Electric, GE Vernova, 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 General-Purpose Variable-frequency Drive 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 General-Purpose Variable-frequency Drive Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global General-Purpose Variable-frequency Drive Market, Segmentation by Type:

Low-power (500 kW)

Global General-Purpose Variable-frequency Drive Market, Segmentation by Motor Type Supported:

Induction Motor

Permanent Magnet Synchronous Motor (PMSM)

Servo Motor

Others

Global General-Purpose Variable-frequency Drive Market, Segmentation by Control Method:

Volt-per-Hertz Control

Sensorless Vector Control

Field-oriented Vector Control (FOC)

Others

Global General-Purpose Variable-frequency Drive Market, Segmentation by Application:

Automotive

Electronics

Food

Pharma

Utilities and Water Treatment

Chemical & Petrochemical

Others

Companies Profiled:

OMRON

Bosch Rexroth

ABB

Siemens

Schneider Electric

Yaskawa Electric

Rockwell Automation (Allen-Bradley)

Delta Electronics

Fuji Electric

GE Vernova

Honeywell

WEG

Inovance

Eaton

NOVOSENSE

INVT

Hitachi

Key Questions Answered:

1. How big is the global General-Purpose Variable-frequency Drive market?
2. What is the demand of the global General-Purpose Variable-frequency Drive market?
3. What is the year over year growth of the global General-Purpose Variable-frequency Drive market?
4. What is the production and production value of the global General-Purpose Variable-frequency Drive market?

5. Who are the key producers in the global General-Purpose Variable-frequency Drive market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 General-Purpose Variable-frequency Drive Introduction
- 1.2 World General-Purpose Variable-frequency Drive Supply & Forecast
 - 1.2.1 World General-Purpose Variable-frequency Drive Production Value (2021 & 2025 & 2032)
 - 1.2.2 World General-Purpose Variable-frequency Drive Production (2021-2032)
 - 1.2.3 World General-Purpose Variable-frequency Drive Pricing Trends (2021-2032)
- 1.3 World General-Purpose Variable-frequency Drive Production by Region (Based on Production Site)
 - 1.3.1 World General-Purpose Variable-frequency Drive Production Value by Region (2021-2032)
 - 1.3.2 World General-Purpose Variable-frequency Drive Production by Region (2021-2032)
 - 1.3.3 World General-Purpose Variable-frequency Drive Average Price by Region (2021-2032)
 - 1.3.4 North America General-Purpose Variable-frequency Drive Production (2021-2032)
 - 1.3.5 Europe General-Purpose Variable-frequency Drive Production (2021-2032)
 - 1.3.6 China General-Purpose Variable-frequency Drive Production (2021-2032)
 - 1.3.7 Japan General-Purpose Variable-frequency Drive Production (2021-2032)
 - 1.3.8 Southeast Asia General-Purpose Variable-frequency Drive Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 General-Purpose Variable-frequency Drive Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 General-Purpose Variable-frequency Drive Major Market Trends

2 DEMAND SUMMARY

- 2.1 World General-Purpose Variable-frequency Drive Demand (2021-2032)
- 2.2 World General-Purpose Variable-frequency Drive Consumption by Region
 - 2.2.1 World General-Purpose Variable-frequency Drive Consumption by Region (2021-2026)
 - 2.2.2 World General-Purpose Variable-frequency Drive Consumption Forecast by Region (2027-2032)
- 2.3 United States General-Purpose Variable-frequency Drive Consumption (2021-2032)

- 2.4 China General-Purpose Variable-frequency Drive Consumption (2021-2032)
- 2.5 Europe General-Purpose Variable-frequency Drive Consumption (2021-2032)
- 2.6 Japan General-Purpose Variable-frequency Drive Consumption (2021-2032)
- 2.7 South Korea General-Purpose Variable-frequency Drive Consumption (2021-2032)
- 2.8 ASEAN General-Purpose Variable-frequency Drive Consumption (2021-2032)
- 2.9 India General-Purpose Variable-frequency Drive Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World General-Purpose Variable-frequency Drive Production Value by Manufacturer (2021-2026)
- 3.2 World General-Purpose Variable-frequency Drive Production by Manufacturer (2021-2026)
- 3.3 World General-Purpose Variable-frequency Drive Average Price by Manufacturer (2021-2026)
- 3.4 General-Purpose Variable-frequency Drive Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global General-Purpose Variable-frequency Drive Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for General-Purpose Variable-frequency Drive in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for General-Purpose Variable-frequency Drive in 2025
- 3.6 General-Purpose Variable-frequency Drive Market: Overall Company Footprint Analysis
 - 3.6.1 General-Purpose Variable-frequency Drive Market: Region Footprint
 - 3.6.2 General-Purpose Variable-frequency Drive Market: Company Product Type Footprint
 - 3.6.3 General-Purpose Variable-frequency Drive Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: General-Purpose Variable-frequency Drive Production Value Comparison

4.1.1 United States VS China: General-Purpose Variable-frequency Drive Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: General-Purpose Variable-frequency Drive Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: General-Purpose Variable-frequency Drive Production Comparison

4.2.1 United States VS China: General-Purpose Variable-frequency Drive Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: General-Purpose Variable-frequency Drive Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: General-Purpose Variable-frequency Drive Consumption Comparison

4.3.1 United States VS China: General-Purpose Variable-frequency Drive Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: General-Purpose Variable-frequency Drive Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based General-Purpose Variable-frequency Drive Manufacturers and Market Share, 2021-2026

4.4.1 United States Based General-Purpose Variable-frequency Drive Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers General-Purpose Variable-frequency Drive Production Value (2021-2026)

4.4.3 United States Based Manufacturers General-Purpose Variable-frequency Drive Production (2021-2026)

4.5 China Based General-Purpose Variable-frequency Drive Manufacturers and Market Share

4.5.1 China Based General-Purpose Variable-frequency Drive Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers General-Purpose Variable-frequency Drive Production Value (2021-2026)

4.5.3 China Based Manufacturers General-Purpose Variable-frequency Drive Production (2021-2026)

4.6 Rest of World Based General-Purpose Variable-frequency Drive Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based General-Purpose Variable-frequency Drive Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers General-Purpose Variable-frequency Drive

Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers General-Purpose Variable-frequency Drive Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World General-Purpose Variable-frequency Drive Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Low-power (500 kW)

5.3 Market Segment by Type

5.3.1 World General-Purpose Variable-frequency Drive Production by Type (2021-2032)

5.3.2 World General-Purpose Variable-frequency Drive Production Value by Type (2021-2032)

5.3.3 World General-Purpose Variable-frequency Drive Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY MOTOR TYPE SUPPORTED

6.1 World General-Purpose Variable-frequency Drive Market Size Overview by Motor Type Supported: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Motor Type Supported

6.2.1 Induction Motor

6.2.2 Permanent Magnet Synchronous Motor (PMSM)

6.2.3 Servo Motor

6.2.4 Others

6.3 Market Segment by Motor Type Supported

6.3.1 World General-Purpose Variable-frequency Drive Production by Motor Type Supported (2021-2032)

6.3.2 World General-Purpose Variable-frequency Drive Production Value by Motor Type Supported (2021-2032)

6.3.3 World General-Purpose Variable-frequency Drive Average Price by Motor Type Supported (2021-2032)

7 MARKET ANALYSIS BY CONTROL METHOD

7.1 World General-Purpose Variable-frequency Drive Market Size Overview by Control Method: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Control Method

7.2.1 Volt-per-Hertz Control

7.2.2 Sensorless Vector Control

7.2.3 Field-oriented Vector Control (FOC)

7.2.4 Others

7.3 Market Segment by Control Method

7.3.1 World General-Purpose Variable-frequency Drive Production by Control Method (2021-2032)

7.3.2 World General-Purpose Variable-frequency Drive Production Value by Control Method (2021-2032)

7.3.3 World General-Purpose Variable-frequency Drive Average Price by Control Method (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World General-Purpose Variable-frequency Drive Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Automotive

8.2.2 Electronics

8.2.3 Food

8.2.4 Pharma

8.2.5 Utilities and Water Treatment

8.2.6 Chemical & Petrochemical

8.2.7 Others

8.3 Market Segment by Application

8.3.1 World General-Purpose Variable-frequency Drive Production by Application (2021-2032)

8.3.2 World General-Purpose Variable-frequency Drive Production Value by Application (2021-2032)

8.3.3 World General-Purpose Variable-frequency Drive Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 OMRON

9.1.1 OMRON Details

9.1.2 OMRON Major Business

9.1.3 OMRON General-Purpose Variable-frequency Drive Product and Services

9.1.4 OMRON General-Purpose Variable-frequency Drive Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 OMRON Recent Developments/Updates

9.1.6 OMRON Competitive Strengths & Weaknesses

9.2 Bosch Rexroth

9.2.1 Bosch Rexroth Details

9.2.2 Bosch Rexroth Major Business

9.2.3 Bosch Rexroth General-Purpose Variable-frequency Drive Product and Services

9.2.4 Bosch Rexroth General-Purpose Variable-frequency Drive Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Bosch Rexroth Recent Developments/Updates

9.2.6 Bosch Rexroth Competitive Strengths & Weaknesses

9.3 ABB

9.3.1 ABB Details

9.3.2 ABB Major Business

9.3.3 ABB General-Purpose Variable-frequency Drive Product and Services

9.3.4 ABB General-Purpose Variable-frequency Drive Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 ABB Recent Developments/Updates

9.3.6 ABB Competitive Strengths & Weaknesses

9.4 Siemens

9.4.1 Siemens Details

9.4.2 Siemens Major Business

9.4.3 Siemens General-Purpose Variable-frequency Drive Product and Services

9.4.4 Siemens General-Purpose Variable-frequency Drive Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Siemens Recent Developments/Updates

9.4.6 Siemens Competitive Strengths & Weaknesses

9.5 Schneider Electric

9.5.1 Schneider Electric Details

9.5.2 Schneider Electric Major Business

9.5.3 Schneider Electric General-Purpose Variable-frequency Drive Product and Services

9.5.4 Schneider Electric General-Purpose Variable-frequency Drive Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Schneider Electric Recent Developments/Updates

9.5.6 Schneider Electric Competitive Strengths & Weaknesses

9.6 Yaskawa Electric

9.6.1 Yaskawa Electric Details

- 9.6.2 Yaskawa Electric Major Business
- 9.6.3 Yaskawa Electric General-Purpose Variable-frequency Drive Product and Services
- 9.6.4 Yaskawa Electric General-Purpose Variable-frequency Drive Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.6.5 Yaskawa Electric Recent Developments/Updates
- 9.6.6 Yaskawa Electric Competitive Strengths & Weaknesses
- 9.7 Rockwell Automation (Allen-Bradley)
 - 9.7.1 Rockwell Automation (Allen-Bradley) Details
 - 9.7.2 Rockwell Automation (Allen-Bradley) Major Business
 - 9.7.3 Rockwell Automation (Allen-Bradley) General-Purpose Variable-frequency Drive Product and Services
 - 9.7.4 Rockwell Automation (Allen-Bradley) General-Purpose Variable-frequency Drive Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Rockwell Automation (Allen-Bradley) Recent Developments/Updates
 - 9.7.6 Rockwell Automation (Allen-Bradley) Competitive Strengths & Weaknesses
- 9.8 Delta Electronics
 - 9.8.1 Delta Electronics Details
 - 9.8.2 Delta Electronics Major Business
 - 9.8.3 Delta Electronics General-Purpose Variable-frequency Drive Product and Services
 - 9.8.4 Delta Electronics General-Purpose Variable-frequency Drive Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Delta Electronics Recent Developments/Updates
 - 9.8.6 Delta Electronics Competitive Strengths & Weaknesses
- 9.9 Fuji Electric
 - 9.9.1 Fuji Electric Details
 - 9.9.2 Fuji Electric Major Business
 - 9.9.3 Fuji Electric General-Purpose Variable-frequency Drive Product and Services
 - 9.9.4 Fuji Electric General-Purpose Variable-frequency Drive Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Fuji Electric Recent Developments/Updates
 - 9.9.6 Fuji Electric Competitive Strengths & Weaknesses
- 9.10 GE Vernova
 - 9.10.1 GE Vernova Details
 - 9.10.2 GE Vernova Major Business
 - 9.10.3 GE Vernova General-Purpose Variable-frequency Drive Product and Services
 - 9.10.4 GE Vernova General-Purpose Variable-frequency Drive Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.10.5 GE Vernova Recent Developments/Updates
- 9.10.6 GE Vernova Competitive Strengths & Weaknesses
- 9.11 Honeywell
 - 9.11.1 Honeywell Details
 - 9.11.2 Honeywell Major Business
 - 9.11.3 Honeywell General-Purpose Variable-frequency Drive Product and Services
 - 9.11.4 Honeywell General-Purpose Variable-frequency Drive Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.11.5 Honeywell Recent Developments/Updates
 - 9.11.6 Honeywell Competitive Strengths & Weaknesses
- 9.12 WEG
 - 9.12.1 WEG Details
 - 9.12.2 WEG Major Business
 - 9.12.3 WEG General-Purpose Variable-frequency Drive Product and Services
 - 9.12.4 WEG General-Purpose Variable-frequency Drive Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 WEG Recent Developments/Updates
 - 9.12.6 WEG Competitive Strengths & Weaknesses
- 9.13 Inovance
 - 9.13.1 Inovance Details
 - 9.13.2 Inovance Major Business
 - 9.13.3 Inovance General-Purpose Variable-frequency Drive Product and Services
 - 9.13.4 Inovance General-Purpose Variable-frequency Drive Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 Inovance Recent Developments/Updates
 - 9.13.6 Inovance Competitive Strengths & Weaknesses
- 9.14 Eaton
 - 9.14.1 Eaton Details
 - 9.14.2 Eaton Major Business
 - 9.14.3 Eaton General-Purpose Variable-frequency Drive Product and Services
 - 9.14.4 Eaton General-Purpose Variable-frequency Drive Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 Eaton Recent Developments/Updates
 - 9.14.6 Eaton Competitive Strengths & Weaknesses
- 9.15 NOVOSENSE
 - 9.15.1 NOVOSENSE Details
 - 9.15.2 NOVOSENSE Major Business
 - 9.15.3 NOVOSENSE General-Purpose Variable-frequency Drive Product and Services
 - 9.15.4 NOVOSENSE General-Purpose Variable-frequency Drive Production, Price,

Value, Gross Margin and Market Share (2021-2026)

9.15.5 NOVOSENSE Recent Developments/Updates

9.15.6 NOVOSENSE Competitive Strengths & Weaknesses

9.16 INVT

9.16.1 INVT Details

9.16.2 INVT Major Business

9.16.3 INVT General-Purpose Variable-frequency Drive Product and Services

9.16.4 INVT General-Purpose Variable-frequency Drive Production, Price, Value,
Gross Margin and Market Share (2021-2026)

9.16.5 INVT Recent Developments/Updates

9.16.6 INVT Competitive Strengths & Weaknesses

9.17 Hitachi

9.17.1 Hitachi Details

9.17.2 Hitachi Major Business

9.17.3 Hitachi General-Purpose Variable-frequency Drive Product and Services

9.17.4 Hitachi General-Purpose Variable-frequency Drive Production, Price, Value,
Gross Margin and Market Share (2021-2026)

9.17.5 Hitachi Recent Developments/Updates

9.17.6 Hitachi Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 General-Purpose Variable-frequency Drive Industry Chain

10.2 General-Purpose Variable-frequency Drive Upstream Analysis

10.2.1 General-Purpose Variable-frequency Drive Core Raw Materials

10.2.2 Main Manufacturers of General-Purpose Variable-frequency Drive Core Raw
Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 General-Purpose Variable-frequency Drive Production Mode

10.6 General-Purpose Variable-frequency Drive Procurement Model

10.7 General-Purpose Variable-frequency Drive Industry Sales Model and Sales
Channels

10.7.1 General-Purpose Variable-frequency Drive Sales Model

10.7.2 General-Purpose Variable-frequency Drive Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. World General-Purpose Variable-frequency Drive Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World General-Purpose Variable-frequency Drive Production Value by Region (2021-2026) & (USD Million)
- Table 3. World General-Purpose Variable-frequency Drive Production Value by Region (2027-2032) & (USD Million)
- Table 4. World General-Purpose Variable-frequency Drive Production Value Market Share by Region (2021-2026)
- Table 5. World General-Purpose Variable-frequency Drive Production Value Market Share by Region (2027-2032)
- Table 6. World General-Purpose Variable-frequency Drive Production by Region (2021-2026) & (K Units)
- Table 7. World General-Purpose Variable-frequency Drive Production by Region (2027-2032) & (K Units)
- Table 8. World General-Purpose Variable-frequency Drive Production Market Share by Region (2021-2026)
- Table 9. World General-Purpose Variable-frequency Drive Production Market Share by Region (2027-2032)
- Table 10. World General-Purpose Variable-frequency Drive Average Price by Region (2021-2026) & (US\$/Unit)
- Table 11. World General-Purpose Variable-frequency Drive Average Price by Region (2027-2032) & (US\$/Unit)
- Table 12. General-Purpose Variable-frequency Drive Major Market Trends
- Table 13. World General-Purpose Variable-frequency Drive Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)
- Table 14. World General-Purpose Variable-frequency Drive Consumption by Region (2021-2026) & (K Units)
- Table 15. World General-Purpose Variable-frequency Drive Consumption Forecast by Region (2027-2032) & (K Units)
- Table 16. World General-Purpose Variable-frequency Drive Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key General-Purpose Variable-frequency Drive Producers in 2025
- Table 18. World General-Purpose Variable-frequency Drive Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key General-Purpose Variable-frequency Drive Producers in 2025

Table 20. World General-Purpose Variable-frequency Drive Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global General-Purpose Variable-frequency Drive Company Evaluation Quadrant

Table 22. World General-Purpose Variable-frequency Drive Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and General-Purpose Variable-frequency Drive Production Site of Key Manufacturer

Table 24. General-Purpose Variable-frequency Drive Market: Company Product Type Footprint

Table 25. General-Purpose Variable-frequency Drive Market: Company Product Application Footprint

Table 26. General-Purpose Variable-frequency Drive Competitive Factors

Table 27. General-Purpose Variable-frequency Drive New Entrant and Capacity Expansion Plans

Table 28. General-Purpose Variable-frequency Drive Mergers & Acquisitions Activity

Table 29. United States VS China General-Purpose Variable-frequency Drive Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China General-Purpose Variable-frequency Drive Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China General-Purpose Variable-frequency Drive Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based General-Purpose Variable-frequency Drive Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers General-Purpose Variable-frequency Drive Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers General-Purpose Variable-frequency Drive Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers General-Purpose Variable-frequency Drive Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers General-Purpose Variable-frequency Drive Production Market Share (2021-2026)

Table 37. China Based General-Purpose Variable-frequency Drive Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers General-Purpose Variable-frequency Drive Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers General-Purpose Variable-frequency Drive

Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers General-Purpose Variable-frequency Drive Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers General-Purpose Variable-frequency Drive Production Market Share (2021-2026)

Table 42. Rest of World Based General-Purpose Variable-frequency Drive Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers General-Purpose Variable-frequency Drive Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers General-Purpose Variable-frequency Drive Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers General-Purpose Variable-frequency Drive Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers General-Purpose Variable-frequency Drive Production Market Share (2021-2026)

Table 47. World General-Purpose Variable-frequency Drive Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World General-Purpose Variable-frequency Drive Production by Type (2021-2026) & (K Units)

Table 49. World General-Purpose Variable-frequency Drive Production by Type (2027-2032) & (K Units)

Table 50. World General-Purpose Variable-frequency Drive Production Value by Type (2021-2026) & (USD Million)

Table 51. World General-Purpose Variable-frequency Drive Production Value by Type (2027-2032) & (USD Million)

Table 52. World General-Purpose Variable-frequency Drive Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World General-Purpose Variable-frequency Drive Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World General-Purpose Variable-frequency Drive Production Value by Motor Type Supported, (USD Million), 2021 & 2025 & 2032

Table 55. World General-Purpose Variable-frequency Drive Production by Motor Type Supported (2021-2026) & (K Units)

Table 56. World General-Purpose Variable-frequency Drive Production by Motor Type Supported (2027-2032) & (K Units)

Table 57. World General-Purpose Variable-frequency Drive Production Value by Motor Type Supported (2021-2026) & (USD Million)

Table 58. World General-Purpose Variable-frequency Drive Production Value by Motor Type Supported (2027-2032) & (USD Million)

Table 59. World General-Purpose Variable-frequency Drive Average Price by Motor Type Supported (2021-2026) & (US\$/Unit)

Table 60. World General-Purpose Variable-frequency Drive Average Price by Motor Type Supported (2027-2032) & (US\$/Unit)

Table 61. World General-Purpose Variable-frequency Drive Production Value by Control Method, (USD Million), 2021 & 2025 & 2032

Table 62. World General-Purpose Variable-frequency Drive Production by Control Method (2021-2026) & (K Units)

Table 63. World General-Purpose Variable-frequency Drive Production by Control Method (2027-2032) & (K Units)

Table 64. World General-Purpose Variable-frequency Drive Production Value by Control Method (2021-2026) & (USD Million)

Table 65. World General-Purpose Variable-frequency Drive Production Value by Control Method (2027-2032) & (USD Million)

Table 66. World General-Purpose Variable-frequency Drive Average Price by Control Method (2021-2026) & (US\$/Unit)

Table 67. World General-Purpose Variable-frequency Drive Average Price by Control Method (2027-2032) & (US\$/Unit)

Table 68. World General-Purpose Variable-frequency Drive Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World General-Purpose Variable-frequency Drive Production by Application (2021-2026) & (K Units)

Table 70. World General-Purpose Variable-frequency Drive Production by Application (2027-2032) & (K Units)

Table 71. World General-Purpose Variable-frequency Drive Production Value by Application (2021-2026) & (USD Million)

Table 72. World General-Purpose Variable-frequency Drive Production Value by Application (2027-2032) & (USD Million)

Table 73. World General-Purpose Variable-frequency Drive Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World General-Purpose Variable-frequency Drive Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. OMRON Basic Information, Manufacturing Base and Competitors

Table 76. OMRON Major Business

Table 77. OMRON General-Purpose Variable-frequency Drive Product and Services

Table 78. OMRON General-Purpose Variable-frequency Drive Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. OMRON Recent Developments/Updates

Table 80. OMRON Competitive Strengths & Weaknesses

Table 81. Bosch Rexroth Basic Information, Manufacturing Base and Competitors

Table 82. Bosch Rexroth Major Business

Table 83. Bosch Rexroth General-Purpose Variable-frequency Drive Product and Services

Table 84. Bosch Rexroth General-Purpose Variable-frequency Drive Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Bosch Rexroth Recent Developments/Updates

Table 86. Bosch Rexroth Competitive Strengths & Weaknesses

Table 87. ABB Basic Information, Manufacturing Base and Competitors

Table 88. ABB Major Business

Table 89. ABB General-Purpose Variable-frequency Drive Product and Services

Table 90. ABB General-Purpose Variable-frequency Drive Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. ABB Recent Developments/Updates

Table 92. ABB Competitive Strengths & Weaknesses

Table 93. Siemens Basic Information, Manufacturing Base and Competitors

Table 94. Siemens Major Business

Table 95. Siemens General-Purpose Variable-frequency Drive Product and Services

Table 96. Siemens General-Purpose Variable-frequency Drive Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Siemens Recent Developments/Updates

Table 98. Siemens Competitive Strengths & Weaknesses

Table 99. Schneider Electric Basic Information, Manufacturing Base and Competitors

Table 100. Schneider Electric Major Business

Table 101. Schneider Electric General-Purpose Variable-frequency Drive Product and Services

Table 102. Schneider Electric General-Purpose Variable-frequency Drive Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Schneider Electric Recent Developments/Updates

Table 104. Schneider Electric Competitive Strengths & Weaknesses

Table 105. Yaskawa Electric Basic Information, Manufacturing Base and Competitors

Table 106. Yaskawa Electric Major Business

Table 107. Yaskawa Electric General-Purpose Variable-frequency Drive Product and Services

- Table 108. Yaskawa Electric General-Purpose Variable-frequency Drive Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. Yaskawa Electric Recent Developments/Updates
- Table 110. Yaskawa Electric Competitive Strengths & Weaknesses
- Table 111. Rockwell Automation (Allen-Bradley) Basic Information, Manufacturing Base and Competitors
- Table 112. Rockwell Automation (Allen-Bradley) Major Business
- Table 113. Rockwell Automation (Allen-Bradley) General-Purpose Variable-frequency Drive Product and Services
- Table 114. Rockwell Automation (Allen-Bradley) General-Purpose Variable-frequency Drive Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. Rockwell Automation (Allen-Bradley) Recent Developments/Updates
- Table 116. Rockwell Automation (Allen-Bradley) Competitive Strengths & Weaknesses
- Table 117. Delta Electronics Basic Information, Manufacturing Base and Competitors
- Table 118. Delta Electronics Major Business
- Table 119. Delta Electronics General-Purpose Variable-frequency Drive Product and Services
- Table 120. Delta Electronics General-Purpose Variable-frequency Drive Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. Delta Electronics Recent Developments/Updates
- Table 122. Delta Electronics Competitive Strengths & Weaknesses
- Table 123. Fuji Electric Basic Information, Manufacturing Base and Competitors
- Table 124. Fuji Electric Major Business
- Table 125. Fuji Electric General-Purpose Variable-frequency Drive Product and Services
- Table 126. Fuji Electric General-Purpose Variable-frequency Drive Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Fuji Electric Recent Developments/Updates
- Table 128. Fuji Electric Competitive Strengths & Weaknesses
- Table 129. GE Vernova Basic Information, Manufacturing Base and Competitors
- Table 130. GE Vernova Major Business
- Table 131. GE Vernova General-Purpose Variable-frequency Drive Product and Services
- Table 132. GE Vernova General-Purpose Variable-frequency Drive Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market

Share (2021-2026)

Table 133. GE Vernova Recent Developments/Updates

Table 134. GE Vernova Competitive Strengths & Weaknesses

Table 135. Honeywell Basic Information, Manufacturing Base and Competitors

Table 136. Honeywell Major Business

Table 137. Honeywell General-Purpose Variable-frequency Drive Product and Services

Table 138. Honeywell General-Purpose Variable-frequency Drive Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Honeywell Recent Developments/Updates

Table 140. Honeywell Competitive Strengths & Weaknesses

Table 141. WEG Basic Information, Manufacturing Base and Competitors

Table 142. WEG Major Business

Table 143. WEG General-Purpose Variable-frequency Drive Product and Services

Table 144. WEG General-Purpose Variable-frequency Drive Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. WEG Recent Developments/Updates

Table 146. WEG Competitive Strengths & Weaknesses

Table 147. Inovance Basic Information, Manufacturing Base and Competitors

Table 148. Inovance Major Business

Table 149. Inovance General-Purpose Variable-frequency Drive Product and Services

Table 150. Inovance General-Purpose Variable-frequency Drive Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Inovance Recent Developments/Updates

Table 152. Inovance Competitive Strengths & Weaknesses

Table 153. Eaton Basic Information, Manufacturing Base and Competitors

Table 154. Eaton Major Business

Table 155. Eaton General-Purpose Variable-frequency Drive Product and Services

Table 156. Eaton General-Purpose Variable-frequency Drive Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Eaton Recent Developments/Updates

Table 158. Eaton Competitive Strengths & Weaknesses

Table 159. NOVOSENSE Basic Information, Manufacturing Base and Competitors

Table 160. NOVOSENSE Major Business

Table 161. NOVOSENSE General-Purpose Variable-frequency Drive Product and Services

Table 162. NOVOSENSE General-Purpose Variable-frequency Drive Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. NOVOSENSE Recent Developments/Updates

Table 164. NOVOSENSE Competitive Strengths & Weaknesses

Table 165. INVT Basic Information, Manufacturing Base and Competitors

Table 166. INVT Major Business

Table 167. INVT General-Purpose Variable-frequency Drive Product and Services

Table 168. INVT General-Purpose Variable-frequency Drive Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. INVT Recent Developments/Updates

Table 170. INVT Competitive Strengths & Weaknesses

Table 171. Hitachi Basic Information, Manufacturing Base and Competitors

Table 172. Hitachi Major Business

Table 173. Hitachi General-Purpose Variable-frequency Drive Product and Services

Table 174. Hitachi General-Purpose Variable-frequency Drive Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. Hitachi Recent Developments/Updates

Table 176. Hitachi Competitive Strengths & Weaknesses

Table 177. Global Key Players of General-Purpose Variable-frequency Drive Upstream (Raw Materials)

Table 178. Global General-Purpose Variable-frequency Drive Typical Customers

Table 179. General-Purpose Variable-frequency Drive Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. General-Purpose Variable-frequency Drive Picture

Figure 2. World General-Purpose Variable-frequency Drive Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World General-Purpose Variable-frequency Drive Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World General-Purpose Variable-frequency Drive Production (2021-2032) & (K Units)

Figure 5. World General-Purpose Variable-frequency Drive Average Price (2021-2032) & (US\$/Unit)

Figure 6. World General-Purpose Variable-frequency Drive Production Value Market Share by Region (2021-2032)

Figure 7. World General-Purpose Variable-frequency Drive Production Market Share by Region (2021-2032)

Figure 8. North America General-Purpose Variable-frequency Drive Production (2021-2032) & (K Units)

Figure 9. Europe General-Purpose Variable-frequency Drive Production (2021-2032) & (K Units)

Figure 10. China General-Purpose Variable-frequency Drive Production (2021-2032) & (K Units)

Figure 11. Japan General-Purpose Variable-frequency Drive Production (2021-2032) & (K Units)

Figure 12. Southeast Asia General-Purpose Variable-frequency Drive Production (2021-2032) & (K Units)

Figure 13. General-Purpose Variable-frequency Drive Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World General-Purpose Variable-frequency Drive Consumption (2021-2032) & (K Units)

Figure 16. World General-Purpose Variable-frequency Drive Consumption Market Share by Region (2021-2032)

Figure 17. United States General-Purpose Variable-frequency Drive Consumption (2021-2032) & (K Units)

Figure 18. China General-Purpose Variable-frequency Drive Consumption (2021-2032) & (K Units)

Figure 19. Europe General-Purpose Variable-frequency Drive Consumption (2021-2032) & (K Units)

Figure 20. Japan General-Purpose Variable-frequency Drive Consumption (2021-2032) & (K Units)

Figure 21. South Korea General-Purpose Variable-frequency Drive Consumption (2021-2032) & (K Units)

Figure 22. ASEAN General-Purpose Variable-frequency Drive Consumption (2021-2032) & (K Units)

Figure 23. India General-Purpose Variable-frequency Drive Consumption (2021-2032) & (K Units)

Figure 24. Producer Shipments of General-Purpose Variable-frequency Drive by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for General-Purpose Variable-frequency Drive Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for General-Purpose Variable-frequency Drive Markets in 2025

Figure 27. United States VS China: General-Purpose Variable-frequency Drive Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: General-Purpose Variable-frequency Drive Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: General-Purpose Variable-frequency Drive Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers General-Purpose Variable-frequency Drive Production Market Share 2025

Figure 31. China Based Manufacturers General-Purpose Variable-frequency Drive Production Market Share 2025

Figure 32. Rest of World Based Manufacturers General-Purpose Variable-frequency Drive Production Market Share 2025

Figure 33. World General-Purpose Variable-frequency Drive Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 34. World General-Purpose Variable-frequency Drive Production Value Market Share by Type in 2025

Figure 35. Low-power (500 kW)

Figure 39. World General-Purpose Variable-frequency Drive Production Market Share by Type (2021-2032)

Figure 40. World General-Purpose Variable-frequency Drive Production Value Market Share by Type (2021-2032)

Figure 41. World General-Purpose Variable-frequency Drive Average Price by Type (2021-2032) & (US\$/Unit)

Figure 42. World General-Purpose Variable-frequency Drive Production Value by Motor Type Supported, (USD Million), 2021 & 2025 & 2032

Figure 43. World General-Purpose Variable-frequency Drive Production Value Market Share by Motor Type Supported in 2025

Figure 44. Induction Motor

Figure 45. Permanent Magnet Synchronous Motor (PMSM)

Figure 46. Servo Motor

Figure 47. Others

Figure 48. World General-Purpose Variable-frequency Drive Production Market Share by Motor Type Supported (2021-2032)

Figure 49. World General-Purpose Variable-frequency Drive Production Value Market Share by Motor Type Supported (2021-2032)

Figure 50. World General-Purpose Variable-frequency Drive Average Price by Motor Type Supported (2021-2032) & (US\$/Unit)

Figure 51. World General-Purpose Variable-frequency Drive Production Value by Control Method, (USD Million), 2021 & 2025 & 2032

Figure 52. World General-Purpose Variable-frequency Drive Production Value Market Share by Control Method in 2025

Figure 53. Volt-per-Hertz Control

Figure 54. Sensorless Vector Control

Figure 55. Field-oriented Vector Control (FOC)

Figure 56. Others

Figure 57. World General-Purpose Variable-frequency Drive Production Market Share by Control Method (2021-2032)

Figure 58. World General-Purpose Variable-frequency Drive Production Value Market Share by Control Method (2021-2032)

Figure 59. World General-Purpose Variable-frequency Drive Average Price by Control Method (2021-2032) & (US\$/Unit)

Figure 60. World General-Purpose Variable-frequency Drive Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 61. World General-Purpose Variable-frequency Drive Production Value Market Share by Application in 2025

Figure 62. Automotive

Figure 63. Electronics

Figure 64. Food

Figure 65. Pharma

Figure 66. Utilities and Water Treatment

Figure 67. Chemical & Petrochemical

Figure 68. Others

Figure 69. World General-Purpose Variable-frequency Drive Production Market Share by Application (2021-2032)

Figure 70. World General-Purpose Variable-frequency Drive Production Value Market Share by Application (2021-2032)

Figure 71. World General-Purpose Variable-frequency Drive Average Price by Application (2021-2032) & (US\$/Unit)

Figure 72. General-Purpose Variable-frequency Drive Industry Chain

Figure 73. General-Purpose Variable-frequency Drive Procurement Model

Figure 74. General-Purpose Variable-frequency Drive Sales Model

Figure 75. General-Purpose Variable-frequency Drive Sales Channels, Direct Sales, and Distribution

Figure 76. Methodology

Figure 77. Research Process and Data Source

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