

Global 320kW Inverter Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global 320kW Inverter market size was valued at US\$ 124 million in 2025 and is forecast to a readjusted size of US\$ 158 million by 2032 with a CAGR of 3.5% during review period.

In 2025, the production volume of 320 kW inverters is projected to reach 18,694 units, with an average selling price of \$6,440 per unit. The global annual production capacity for 320 kW inverters stands at approximately 30,000 units, with a gross margin of approximately 30.2%. A 320 kW inverter is a power electronic device with a rated output power of 320 kilowatts (kW); it converts direct current (DC) into alternating current (AC) while providing stable voltage, frequency, and phase. These inverters are utilized in various applications, including driving electric motors and generator sets, as well as in grid-tied photovoltaic (PV) systems and energy storage systems. The upstream supply chain for 320 kW inverters comprises raw materials such as semiconductors, electronic components, silicon wafers, and discrete device materials. The midstream segment consists of the manufacturers of these 320 kW inverters, while the downstream market primarily encompasses sectors such as PV power plants, energy storage, and industrial applications.

Inverters in the 320 kW power class primarily target large-scale commercial and industrial (C&I) rooftop distributed power stations, as well as small-to-medium-sized ground-mounted power plants; this segment represents one of the most fiercely contested battlegrounds between centralized and string inverter solutions. Currently, the technology for products in this power range is highly mature; mainstream manufacturers widely employ three-level topological structures combined with hybrid SiC (Silicon Carbide)/IGBT device schemes, thereby boosting maximum efficiency to over 99%. In terms of the competitive landscape, Chinese enterprises such as Sungrow, Ginlong

Technologies, and Growatt?have established a dominant position in the global market, leveraging their cost advantages derived from economies of scale and their rapid product iteration capabilities. These companies are also continuing to expand into emerging markets across Southeast Asia, the Middle East, and Latin America. Regarding product trends, 320 kW string inverters are gradually displacing centralized solutions within the same power class, largely due to their multi-MPPT designs, which deliver superior power generation yields in environments with complex terrain. Furthermore, enhanced grid adaptability (including high/low voltage ride-through capabilities and reactive power compensation) and intelligent O&M functionalities have become standard features for products in this power segment; consequently, market competition has evolved from a mere contest of efficiency metrics into a comprehensive rivalry based on the overall strength of system-level solutions.

This report is a detailed and comprehensive analysis for global 320kW Inverter market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global 320kW Inverter market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global 320kW Inverter market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global 320kW Inverter market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global 320kW Inverter market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for 320kW Inverter

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global 320kW Inverter market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Billion Electric, Growatt, Slenergy, SolaX Power, SUNGROW, Ginlong, GoodWe, CSI SOLAR, CHNT POWER, PrimeVOLT, etc.

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

Market Segmentation

320kW Inverter market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Centralized

Serialized

Market segment by Energy Management Function

Grid-Connected

Hybrid

Market segment by Output Waveform

Square Wave Inverter

Sine Wave Inverter

Market segment by MPPT Configuration

12 Channels

14 Channels

16 Channels

Market segment by Application

Photovoltaic Power Plants

Energy Storage

Industrial

Others

Major players covered

Billion Electric

Growatt

Slenergy

SolaX Power

SUNGROW

Ginlong

GoodWe

CSI SOLAR

CHNT POWER

PrimeVOLT

KSTAR

HYXIPOWER

SINENG

HOPEWIND

ENF Solar

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe 320kW Inverter product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 320kW Inverter, with price, sales quantity, revenue, and global market share of 320kW Inverter from 2021 to 2026.

Chapter 3, the 320kW Inverter competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 320kW Inverter breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and 320kW Inverter market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of 320kW Inverter.

Chapter 14 and 15, to describe 320kW Inverter sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global 320kW Inverter Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Centralized

1.3.3 Serialized

1.4 Market Analysis by Energy Management Function

1.4.1 Overview: Global 320kW Inverter Consumption Value by Energy Management Function: 2021 Versus 2025 Versus 2032

1.4.2 Grid-Connected

1.4.3 Hybrid

1.5 Market Analysis by Output Waveform

1.5.1 Overview: Global 320kW Inverter Consumption Value by Output Waveform: 2021 Versus 2025 Versus 2032

1.5.2 Square Wave Inverter

1.5.3 Sine Wave Inverter

1.6 Market Analysis by MPPT Configuration

1.6.1 Overview: Global 320kW Inverter Consumption Value by MPPT Configuration: 2021 Versus 2025 Versus 2032

1.6.2 12 Channels

1.6.3 14 Channels

1.6.4 16 Channels

1.7 Market Analysis by Application

1.7.1 Overview: Global 320kW Inverter Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.7.2 Photovoltaic Power Plants

1.7.3 Energy Storage

1.7.4 Industrial

1.7.5 Others

1.8 Global 320kW Inverter Market Size & Forecast

1.8.1 Global 320kW Inverter Consumption Value (2021 & 2025 & 2032)

1.8.2 Global 320kW Inverter Sales Quantity (2021-2032)

1.8.3 Global 320kW Inverter Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Billion Electric

2.1.1 Billion Electric Details

2.1.2 Billion Electric Major Business

2.1.3 Billion Electric 320kW Inverter Product and Services

2.1.4 Billion Electric 320kW Inverter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Billion Electric Recent Developments/Updates

2.2 Growatt

2.2.1 Growatt Details

2.2.2 Growatt Major Business

2.2.3 Growatt 320kW Inverter Product and Services

2.2.4 Growatt 320kW Inverter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Growatt Recent Developments/Updates

2.3 Slenergy

2.3.1 Slenergy Details

2.3.2 Slenergy Major Business

2.3.3 Slenergy 320kW Inverter Product and Services

2.3.4 Slenergy 320kW Inverter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Slenergy Recent Developments/Updates

2.4 SolaX Power

2.4.1 SolaX Power Details

2.4.2 SolaX Power Major Business

2.4.3 SolaX Power 320kW Inverter Product and Services

2.4.4 SolaX Power 320kW Inverter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 SolaX Power Recent Developments/Updates

2.5 SUNGROW

2.5.1 SUNGROW Details

2.5.2 SUNGROW Major Business

2.5.3 SUNGROW 320kW Inverter Product and Services

2.5.4 SUNGROW 320kW Inverter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 SUNGROW Recent Developments/Updates

2.6 Ginlong

2.6.1 Ginlong Details

- 2.6.2 Ginlong Major Business
- 2.6.3 Ginlong 320kW Inverter Product and Services
- 2.6.4 Ginlong 320kW Inverter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.6.5 Ginlong Recent Developments/Updates
- 2.7 GoodWe
 - 2.7.1 GoodWe Details
 - 2.7.2 GoodWe Major Business
 - 2.7.3 GoodWe 320kW Inverter Product and Services
 - 2.7.4 GoodWe 320kW Inverter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.7.5 GoodWe Recent Developments/Updates
- 2.8 CSI SOLAR
 - 2.8.1 CSI SOLAR Details
 - 2.8.2 CSI SOLAR Major Business
 - 2.8.3 CSI SOLAR 320kW Inverter Product and Services
 - 2.8.4 CSI SOLAR 320kW Inverter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 CSI SOLAR Recent Developments/Updates
- 2.9 CHNT POWER
 - 2.9.1 CHNT POWER Details
 - 2.9.2 CHNT POWER Major Business
 - 2.9.3 CHNT POWER 320kW Inverter Product and Services
 - 2.9.4 CHNT POWER 320kW Inverter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.9.5 CHNT POWER Recent Developments/Updates
- 2.10 PrimeVOLT
 - 2.10.1 PrimeVOLT Details
 - 2.10.2 PrimeVOLT Major Business
 - 2.10.3 PrimeVOLT 320kW Inverter Product and Services
 - 2.10.4 PrimeVOLT 320kW Inverter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.10.5 PrimeVOLT Recent Developments/Updates
- 2.11 KSTAR
 - 2.11.1 KSTAR Details
 - 2.11.2 KSTAR Major Business
 - 2.11.3 KSTAR 320kW Inverter Product and Services
 - 2.11.4 KSTAR 320kW Inverter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 KSTAR Recent Developments/Updates

2.12 HYXiPOWER

2.12.1 HYXiPOWER Details

2.12.2 HYXiPOWER Major Business

2.12.3 HYXiPOWER 320kW Inverter Product and Services

2.12.4 HYXiPOWER 320kW Inverter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.12.5 HYXiPOWER Recent Developments/Updates

2.13 SINENG

2.13.1 SINENG Details

2.13.2 SINENG Major Business

2.13.3 SINENG 320kW Inverter Product and Services

2.13.4 SINENG 320kW Inverter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.13.5 SINENG Recent Developments/Updates

2.14 HOPEWIND

2.14.1 HOPEWIND Details

2.14.2 HOPEWIND Major Business

2.14.3 HOPEWIND 320kW Inverter Product and Services

2.14.4 HOPEWIND 320kW Inverter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.14.5 HOPEWIND Recent Developments/Updates

2.15 ENF Solar

2.15.1 ENF Solar Details

2.15.2 ENF Solar Major Business

2.15.3 ENF Solar 320kW Inverter Product and Services

2.15.4 ENF Solar 320kW Inverter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.15.5 ENF Solar Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: 320KW INVERTER BY MANUFACTURER

3.1 Global 320kW Inverter Sales Quantity by Manufacturer (2021-2026)

3.2 Global 320kW Inverter Revenue by Manufacturer (2021-2026)

3.3 Global 320kW Inverter Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of 320kW Inverter by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 320kW Inverter Manufacturer Market Share in 2025

- 3.4.3 Top 6 320kW Inverter Manufacturer Market Share in 2025
- 3.5 320kW Inverter Market: Overall Company Footprint Analysis
 - 3.5.1 320kW Inverter Market: Region Footprint
 - 3.5.2 320kW Inverter Market: Company Product Type Footprint
 - 3.5.3 320kW Inverter Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global 320kW Inverter Market Size by Region
 - 4.1.1 Global 320kW Inverter Sales Quantity by Region (2021-2032)
 - 4.1.2 Global 320kW Inverter Consumption Value by Region (2021-2032)
 - 4.1.3 Global 320kW Inverter Average Price by Region (2021-2032)
- 4.2 North America 320kW Inverter Consumption Value (2021-2032)
- 4.3 Europe 320kW Inverter Consumption Value (2021-2032)
- 4.4 Asia-Pacific 320kW Inverter Consumption Value (2021-2032)
- 4.5 South America 320kW Inverter Consumption Value (2021-2032)
- 4.6 Middle East & Africa 320kW Inverter Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

- 5.1 Global 320kW Inverter Sales Quantity by Type (2021-2032)
- 5.2 Global 320kW Inverter Consumption Value by Type (2021-2032)
- 5.3 Global 320kW Inverter Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global 320kW Inverter Sales Quantity by Application (2021-2032)
- 6.2 Global 320kW Inverter Consumption Value by Application (2021-2032)
- 6.3 Global 320kW Inverter Average Price by Application (2021-2032)

7 NORTH AMERICA

- 7.1 North America 320kW Inverter Sales Quantity by Type (2021-2032)
- 7.2 North America 320kW Inverter Sales Quantity by Application (2021-2032)
- 7.3 North America 320kW Inverter Market Size by Country
 - 7.3.1 North America 320kW Inverter Sales Quantity by Country (2021-2032)
 - 7.3.2 North America 320kW Inverter Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe 320kW Inverter Sales Quantity by Type (2021-2032)

8.2 Europe 320kW Inverter Sales Quantity by Application (2021-2032)

8.3 Europe 320kW Inverter Market Size by Country

8.3.1 Europe 320kW Inverter Sales Quantity by Country (2021-2032)

8.3.2 Europe 320kW Inverter Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific 320kW Inverter Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific 320kW Inverter Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific 320kW Inverter Market Size by Region

9.3.1 Asia-Pacific 320kW Inverter Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific 320kW Inverter Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America 320kW Inverter Sales Quantity by Type (2021-2032)

10.2 South America 320kW Inverter Sales Quantity by Application (2021-2032)

10.3 South America 320kW Inverter Market Size by Country

10.3.1 South America 320kW Inverter Sales Quantity by Country (2021-2032)

10.3.2 South America 320kW Inverter Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa 320kW Inverter Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa 320kW Inverter Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa 320kW Inverter Market Size by Country

11.3.1 Middle East & Africa 320kW Inverter Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa 320kW Inverter Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 320kW Inverter Market Drivers

12.2 320kW Inverter Market Restraints

12.3 320kW Inverter Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of 320kW Inverter and Key Manufacturers

13.2 Manufacturing Costs Percentage of 320kW Inverter

13.3 320kW Inverter Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 320kW Inverter Typical Distributors

14.3 320kW Inverter Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global 320kW Inverter Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global 320kW Inverter Consumption Value by Energy Management Function, (USD Million), 2021 & 2025 & 2032

Table 3. Global 320kW Inverter Consumption Value by Output Waveform, (USD Million), 2021 & 2025 & 2032

Table 4. Global 320kW Inverter Consumption Value by MPPT Configuration, (USD Million), 2021 & 2025 & 2032

Table 5. Global 320kW Inverter Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 6. Billion Electric Basic Information, Manufacturing Base and Competitors

Table 7. Billion Electric Major Business

Table 8. Billion Electric 320kW Inverter Product and Services

Table 9. Billion Electric 320kW Inverter Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 10. Billion Electric Recent Developments/Updates

Table 11. Growatt Basic Information, Manufacturing Base and Competitors

Table 12. Growatt Major Business

Table 13. Growatt 320kW Inverter Product and Services

Table 14. Growatt 320kW Inverter Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 15. Growatt Recent Developments/Updates

Table 16. Slenergy Basic Information, Manufacturing Base and Competitors

Table 17. Slenergy Major Business

Table 18. Slenergy 320kW Inverter Product and Services

Table 19. Slenergy 320kW Inverter Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 20. Slenergy Recent Developments/Updates

Table 21. SolaX Power Basic Information, Manufacturing Base and Competitors

Table 22. SolaX Power Major Business

Table 23. SolaX Power 320kW Inverter Product and Services

Table 24. SolaX Power 320kW Inverter Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 25. SolaX Power Recent Developments/Updates

Table 26. SUNGROW Basic Information, Manufacturing Base and Competitors

Table 27. SUNGROW Major Business
Table 28. SUNGROW 320kW Inverter Product and Services
Table 29. SUNGROW 320kW Inverter Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 30. SUNGROW Recent Developments/Updates
Table 31. Ginlong Basic Information, Manufacturing Base and Competitors
Table 32. Ginlong Major Business
Table 33. Ginlong 320kW Inverter Product and Services
Table 34. Ginlong 320kW Inverter Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 35. Ginlong Recent Developments/Updates
Table 36. GoodWe Basic Information, Manufacturing Base and Competitors
Table 37. GoodWe Major Business
Table 38. GoodWe 320kW Inverter Product and Services
Table 39. GoodWe 320kW Inverter Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 40. GoodWe Recent Developments/Updates
Table 41. CSI SOLAR Basic Information, Manufacturing Base and Competitors
Table 42. CSI SOLAR Major Business
Table 43. CSI SOLAR 320kW Inverter Product and Services
Table 44. CSI SOLAR 320kW Inverter Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 45. CSI SOLAR Recent Developments/Updates
Table 46. CHNT POWER Basic Information, Manufacturing Base and Competitors
Table 47. CHNT POWER Major Business
Table 48. CHNT POWER 320kW Inverter Product and Services
Table 49. CHNT POWER 320kW Inverter Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 50. CHNT POWER Recent Developments/Updates
Table 51. PrimeVOLT Basic Information, Manufacturing Base and Competitors
Table 52. PrimeVOLT Major Business
Table 53. PrimeVOLT 320kW Inverter Product and Services
Table 54. PrimeVOLT 320kW Inverter Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 55. PrimeVOLT Recent Developments/Updates
Table 56. KSTAR Basic Information, Manufacturing Base and Competitors
Table 57. KSTAR Major Business
Table 58. KSTAR 320kW Inverter Product and Services
Table 59. KSTAR 320kW Inverter Sales Quantity (Units), Average Price (US\$/Unit),

Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 60. KSTAR Recent Developments/Updates

Table 61. HYXiPOWER Basic Information, Manufacturing Base and Competitors

Table 62. HYXiPOWER Major Business

Table 63. HYXiPOWER 320kW Inverter Product and Services

Table 64. HYXiPOWER 320kW Inverter Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 65. HYXiPOWER Recent Developments/Updates

Table 66. SINENG Basic Information, Manufacturing Base and Competitors

Table 67. SINENG Major Business

Table 68. SINENG 320kW Inverter Product and Services

Table 69. SINENG 320kW Inverter Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 70. SINENG Recent Developments/Updates

Table 71. HOPEWIND Basic Information, Manufacturing Base and Competitors

Table 72. HOPEWIND Major Business

Table 73. HOPEWIND 320kW Inverter Product and Services

Table 74. HOPEWIND 320kW Inverter Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 75. HOPEWIND Recent Developments/Updates

Table 76. ENF Solar Basic Information, Manufacturing Base and Competitors

Table 77. ENF Solar Major Business

Table 78. ENF Solar 320kW Inverter Product and Services

Table 79. ENF Solar 320kW Inverter Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 80. ENF Solar Recent Developments/Updates

Table 81. Global 320kW Inverter Sales Quantity by Manufacturer (2021-2026) & (Units)

Table 82. Global 320kW Inverter Revenue by Manufacturer (2021-2026) & (USD Million)

Table 83. Global 320kW Inverter Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 84. Market Position of Manufacturers in 320kW Inverter, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 85. Head Office and 320kW Inverter Production Site of Key Manufacturer

Table 86. 320kW Inverter Market: Company Product Type Footprint

Table 87. 320kW Inverter Market: Company Product Application Footprint

Table 88. 320kW Inverter New Market Entrants and Barriers to Market Entry

Table 89. 320kW Inverter Mergers, Acquisition, Agreements, and Collaborations

Table 90. Global 320kW Inverter Consumption Value by Region (2021-2025-2032) &

(USD Million) & CAGR

Table 91. Global 320kW Inverter Sales Quantity by Region (2021-2026) & (Units)

Table 92. Global 320kW Inverter Sales Quantity by Region (2027-2032) & (Units)

Table 93. Global 320kW Inverter Consumption Value by Region (2021-2026) & (USD Million)

Table 94. Global 320kW Inverter Consumption Value by Region (2027-2032) & (USD Million)

Table 95. Global 320kW Inverter Average Price by Region (2021-2026) & (US\$/Unit)

Table 96. Global 320kW Inverter Average Price by Region (2027-2032) & (US\$/Unit)

Table 97. Global 320kW Inverter Sales Quantity by Type (2021-2026) & (Units)

Table 98. Global 320kW Inverter Sales Quantity by Type (2027-2032) & (Units)

Table 99. Global 320kW Inverter Consumption Value by Type (2021-2026) & (USD Million)

Table 100. Global 320kW Inverter Consumption Value by Type (2027-2032) & (USD Million)

Table 101. Global 320kW Inverter Average Price by Type (2021-2026) & (US\$/Unit)

Table 102. Global 320kW Inverter Average Price by Type (2027-2032) & (US\$/Unit)

Table 103. Global 320kW Inverter Sales Quantity by Application (2021-2026) & (Units)

Table 104. Global 320kW Inverter Sales Quantity by Application (2027-2032) & (Units)

Table 105. Global 320kW Inverter Consumption Value by Application (2021-2026) & (USD Million)

Table 106. Global 320kW Inverter Consumption Value by Application (2027-2032) & (USD Million)

Table 107. Global 320kW Inverter Average Price by Application (2021-2026) & (US\$/Unit)

Table 108. Global 320kW Inverter Average Price by Application (2027-2032) & (US\$/Unit)

Table 109. North America 320kW Inverter Sales Quantity by Type (2021-2026) & (Units)

Table 110. North America 320kW Inverter Sales Quantity by Type (2027-2032) & (Units)

Table 111. North America 320kW Inverter Sales Quantity by Application (2021-2026) & (Units)

Table 112. North America 320kW Inverter Sales Quantity by Application (2027-2032) & (Units)

Table 113. North America 320kW Inverter Sales Quantity by Country (2021-2026) & (Units)

Table 114. North America 320kW Inverter Sales Quantity by Country (2027-2032) & (Units)

Table 115. North America 320kW Inverter Consumption Value by Country (2021-2026) & (USD Million)

Table 116. North America 320kW Inverter Consumption Value by Country (2027-2032) & (USD Million)

Table 117. Europe 320kW Inverter Sales Quantity by Type (2021-2026) & (Units)

Table 118. Europe 320kW Inverter Sales Quantity by Type (2027-2032) & (Units)

Table 119. Europe 320kW Inverter Sales Quantity by Application (2021-2026) & (Units)

Table 120. Europe 320kW Inverter Sales Quantity by Application (2027-2032) & (Units)

Table 121. Europe 320kW Inverter Sales Quantity by Country (2021-2026) & (Units)

Table 122. Europe 320kW Inverter Sales Quantity by Country (2027-2032) & (Units)

Table 123. Europe 320kW Inverter Consumption Value by Country (2021-2026) & (USD Million)

Table 124. Europe 320kW Inverter Consumption Value by Country (2027-2032) & (USD Million)

Table 125. Asia-Pacific 320kW Inverter Sales Quantity by Type (2021-2026) & (Units)

Table 126. Asia-Pacific 320kW Inverter Sales Quantity by Type (2027-2032) & (Units)

Table 127. Asia-Pacific 320kW Inverter Sales Quantity by Application (2021-2026) & (Units)

Table 128. Asia-Pacific 320kW Inverter Sales Quantity by Application (2027-2032) & (Units)

Table 129. Asia-Pacific 320kW Inverter Sales Quantity by Region (2021-2026) & (Units)

Table 130. Asia-Pacific 320kW Inverter Sales Quantity by Region (2027-2032) & (Units)

Table 131. Asia-Pacific 320kW Inverter Consumption Value by Region (2021-2026) & (USD Million)

Table 132. Asia-Pacific 320kW Inverter Consumption Value by Region (2027-2032) & (USD Million)

Table 133. South America 320kW Inverter Sales Quantity by Type (2021-2026) & (Units)

Table 134. South America 320kW Inverter Sales Quantity by Type (2027-2032) & (Units)

Table 135. South America 320kW Inverter Sales Quantity by Application (2021-2026) & (Units)

Table 136. South America 320kW Inverter Sales Quantity by Application (2027-2032) & (Units)

Table 137. South America 320kW Inverter Sales Quantity by Country (2021-2026) & (Units)

Table 138. South America 320kW Inverter Sales Quantity by Country (2027-2032) & (Units)

Table 139. South America 320kW Inverter Consumption Value by Country (2021-2026) & (USD Million)

Table 140. South America 320kW Inverter Consumption Value by Country (2027-2032)

& (USD Million)

Table 141. Middle East & Africa 320kW Inverter Sales Quantity by Type (2021-2026) & (Units)

Table 142. Middle East & Africa 320kW Inverter Sales Quantity by Type (2027-2032) & (Units)

Table 143. Middle East & Africa 320kW Inverter Sales Quantity by Application (2021-2026) & (Units)

Table 144. Middle East & Africa 320kW Inverter Sales Quantity by Application (2027-2032) & (Units)

Table 145. Middle East & Africa 320kW Inverter Sales Quantity by Country (2021-2026) & (Units)

Table 146. Middle East & Africa 320kW Inverter Sales Quantity by Country (2027-2032) & (Units)

Table 147. Middle East & Africa 320kW Inverter Consumption Value by Country (2021-2026) & (USD Million)

Table 148. Middle East & Africa 320kW Inverter Consumption Value by Country (2027-2032) & (USD Million)

Table 149. 320kW Inverter Raw Material

Table 150. Key Manufacturers of 320kW Inverter Raw Materials

Table 151. 320kW Inverter Typical Distributors

Table 152. 320kW Inverter Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. 320kW Inverter Picture

Figure 2. Global 320kW Inverter Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global 320kW Inverter Revenue Market Share by Type in 2025

Figure 4. Centralized Examples

Figure 5. Serialized Examples

Figure 6. Global 320kW Inverter Revenue by Energy Management Function, (USD Million), 2021 & 2025 & 2032

Figure 7. Global 320kW Inverter Revenue Market Share by Energy Management Function in 2025

Figure 8. Grid-Connected Examples

Figure 9. Hybrid Examples

Figure 10. Global 320kW Inverter Revenue by Output Waveform, (USD Million), 2021 & 2025 & 2032

Figure 11. Global 320kW Inverter Revenue Market Share by Output Waveform in 2025

Figure 12. Square Wave Inverter Examples

Figure 13. Sine Wave Inverter Examples

Figure 14. Global 320kW Inverter Revenue by MPPT Configuration, (USD Million), 2021 & 2025 & 2032

Figure 15. Global 320kW Inverter Revenue Market Share by MPPT Configuration in 2025

Figure 16. 12 Channels Examples

Figure 17. 14 Channels Examples

Figure 18. 16 Channels Examples

Figure 19. Global 320kW Inverter Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 20. Global 320kW Inverter Revenue Market Share by Application in 2025

Figure 21. Photovoltaic Power Plants Examples

Figure 22. Energy Storage Examples

Figure 23. Industrial Examples

Figure 24. Others Examples

Figure 25. Global 320kW Inverter Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 26. Global 320kW Inverter Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 27. Global 320kW Inverter Sales Quantity (2021-2032) & (Units)

- Figure 28. Global 320kW Inverter Price (2021-2032) & (US\$/Unit)
- Figure 29. Global 320kW Inverter Sales Quantity Market Share by Manufacturer in 2025
- Figure 30. Global 320kW Inverter Revenue Market Share by Manufacturer in 2025
- Figure 31. Producer Shipments of 320kW Inverter by Manufacturer Sales (\$MM) and Market Share (%): 2025
- Figure 32. Top 3 320kW Inverter Manufacturer (Revenue) Market Share in 2025
- Figure 33. Top 6 320kW Inverter Manufacturer (Revenue) Market Share in 2025
- Figure 34. Global 320kW Inverter Sales Quantity Market Share by Region (2021-2032)
- Figure 35. Global 320kW Inverter Consumption Value Market Share by Region (2021-2032)
- Figure 36. North America 320kW Inverter Consumption Value (2021-2032) & (USD Million)
- Figure 37. Europe 320kW Inverter Consumption Value (2021-2032) & (USD Million)
- Figure 38. Asia-Pacific 320kW Inverter Consumption Value (2021-2032) & (USD Million)
- Figure 39. South America 320kW Inverter Consumption Value (2021-2032) & (USD Million)
- Figure 40. Middle East & Africa 320kW Inverter Consumption Value (2021-2032) & (USD Million)
- Figure 41. Global 320kW Inverter Sales Quantity Market Share by Type (2021-2032)
- Figure 42. Global 320kW Inverter Consumption Value Market Share by Type (2021-2032)
- Figure 43. Global 320kW Inverter Average Price by Type (2021-2032) & (US\$/Unit)
- Figure 44. Global 320kW Inverter Sales Quantity Market Share by Application (2021-2032)
- Figure 45. Global 320kW Inverter Revenue Market Share by Application (2021-2032)
- Figure 46. Global 320kW Inverter Average Price by Application (2021-2032) & (US\$/Unit)
- Figure 47. North America 320kW Inverter Sales Quantity Market Share by Type (2021-2032)
- Figure 48. North America 320kW Inverter Sales Quantity Market Share by Application (2021-2032)
- Figure 49. North America 320kW Inverter Sales Quantity Market Share by Country (2021-2032)
- Figure 50. North America 320kW Inverter Consumption Value Market Share by Country (2021-2032)
- Figure 51. United States 320kW Inverter Consumption Value (2021-2032) & (USD Million)
- Figure 52. Canada 320kW Inverter Consumption Value (2021-2032) & (USD Million)
- Figure 53. Mexico 320kW Inverter Consumption Value (2021-2032) & (USD Million)

Figure 54. Europe 320kW Inverter Sales Quantity Market Share by Type (2021-2032)

Figure 55. Europe 320kW Inverter Sales Quantity Market Share by Application (2021-2032)

Figure 56. Europe 320kW Inverter Sales Quantity Market Share by Country (2021-2032)

Figure 57. Europe 320kW Inverter Consumption Value Market Share by Country (2021-2032)

Figure 58. Germany 320kW Inverter Consumption Value (2021-2032) & (USD Million)

Figure 59. France 320kW Inverter Consumption Value (2021-2032) & (USD Million)

Figure 60. United Kingdom 320kW Inverter Consumption Value (2021-2032) & (USD Million)

Figure 61. Russia 320kW Inverter Consumption Value (2021-2032) & (USD Million)

Figure 62. Italy 320kW Inverter Consumption Value (2021-2032) & (USD Million)

Figure 63. Asia-Pacific 320kW Inverter Sales Quantity Market Share by Type (2021-2032)

Figure 64. Asia-Pacific 320kW Inverter Sales Quantity Market Share by Application (2021-2032)

Figure 65. Asia-Pacific 320kW Inverter Sales Quantity Market Share by Region (2021-2032)

Figure 66. Asia-Pacific 320kW Inverter Consumption Value Market Share by Region (2021-2032)

Figure 67. China 320kW Inverter Consumption Value (2021-2032) & (USD Million)

Figure 68. Japan 320kW Inverter Consumption Value (2021-2032) & (USD Million)

Figure 69. South Korea 320kW Inverter Consumption Value (2021-2032) & (USD Million)

Figure 70. India 320kW Inverter Consumption Value (2021-2032) & (USD Million)

Figure 71. Southeast Asia 320kW Inverter Consumption Value (2021-2032) & (USD Million)

Figure 72. Australia 320kW Inverter Consumption Value (2021-2032) & (USD Million)

Figure 73. South America 320kW Inverter Sales Quantity Market Share by Type (2021-2032)

Figure 74. South America 320kW Inverter Sales Quantity Market Share by Application (2021-2032)

Figure 75. South America 320kW Inverter Sales Quantity Market Share by Country (2021-2032)

Figure 76. South America 320kW Inverter Consumption Value Market Share by Country (2021-2032)

Figure 77. Brazil 320kW Inverter Consumption Value (2021-2032) & (USD Million)

Figure 78. Argentina 320kW Inverter Consumption Value (2021-2032) & (USD Million)

Figure 79. Middle East & Africa 320kW Inverter Sales Quantity Market Share by Type

(2021-2032)

Figure 80. Middle East & Africa 320kW Inverter Sales Quantity Market Share by Application (2021-2032)

Figure 81. Middle East & Africa 320kW Inverter Sales Quantity Market Share by Country (2021-2032)

Figure 82. Middle East & Africa 320kW Inverter Consumption Value Market Share by Country (2021-2032)

Figure 83. Turkey 320kW Inverter Consumption Value (2021-2032) & (USD Million)

Figure 84. Egypt 320kW Inverter Consumption Value (2021-2032) & (USD Million)

Figure 85. Saudi Arabia 320kW Inverter Consumption Value (2021-2032) & (USD Million)

Figure 86. South Africa 320kW Inverter Consumption Value (2021-2032) & (USD Million)

Figure 87. 320kW Inverter Market Drivers

Figure 88. 320kW Inverter Market Restraints

Figure 89. 320kW Inverter Market Trends

Figure 90. Porters Five Forces Analysis

Figure 91. Manufacturing Cost Structure Analysis of 320kW Inverter in 2025

Figure 92. Manufacturing Process Analysis of 320kW Inverter

Figure 93. 320kW Inverter Industrial Chain

Figure 94. Sales Channel: Direct to End-User vs Distributors

Figure 95. Direct Channel Pros & Cons

Figure 96. Indirect Channel Pros & Cons

Figure 97. Methodology

Figure 98. Research Process and Data Source

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