

Global Single-Phase String Grid-Connected Photovoltaic Inverter Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

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Abstracts

According to our (Global Info Research) latest study, the global Single-Phase String Grid-Connected Photovoltaic Inverter market size was valued at USD million in 2022 and is forecast to a readjusted size of USD million by 2029 with a CAGR of % during review period.

The single-phase string grid-connected photovoltaic inverter is a device used in solar photovoltaic power generation systems to convert DC power into AC power and integrate it into the grid. The main functions of single-phase string-connected photovoltaic inverters include: 1. DC to AC conversion: The DC power generated by the photovoltaic panels is converted by the inverter into AC power to adapt to the power supply requirements of the grid. 2. Maximum power point tracking: The inverter can adjust the working point in real time according to the working status of the photovoltaic panels and environmental conditions to obtain the maximum power generation. 3. Grid connection function: The inverter integrates the converted AC power into the power grid for use by users, and can realize the monitoring and protection functions of the power grid. 4. Data collection and monitoring: The inverter can collect the working data of the photovoltaic power generation system, including power generation, voltage, current and other parameters, and transmit these data to the monitoring system through the communication interface to monitor and manage the operating status of the system. . Single-phase string grid-connected photovoltaic inverters are usually suitable for home and small commercial photovoltaic power generation systems. They are characterized by simple structure, easy installation, and stable operation. They can efficiently integrate the power generated by the solar photovoltaic power generation system into the power grid. Realize the utilization and power supply of clean energy.

The Global Info Research report includes an overview of the development of the Single-Phase String Grid-Connected Photovoltaic Inverter industry chain, the market status of PV Industry (Central Inverter, Line Inverter), Agriculture (Central Inverter, Line Inverter), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Single-Phase String Grid-Connected Photovoltaic Inverter.

Regionally, the report analyzes the Single-Phase String Grid-Connected Photovoltaic Inverter markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Single-Phase String Grid-Connected Photovoltaic Inverter market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Single-Phase String Grid-Connected Photovoltaic Inverter market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Single-Phase String Grid-Connected Photovoltaic Inverter industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Central Inverter, Line Inverter).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Single-Phase String Grid-Connected Photovoltaic Inverter market.

Regional Analysis: The report involves examining the Single-Phase String Grid-Connected Photovoltaic Inverter market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Single-Phase String Grid-Connected Photovoltaic Inverter market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Single-Phase String Grid-Connected Photovoltaic Inverter:

Company Analysis: Report covers individual Single-Phase String Grid-Connected Photovoltaic Inverter manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Single-Phase String Grid-Connected Photovoltaic Inverter. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (PV Industry, Agriculture).

Technology Analysis: Report covers specific technologies relevant to Single-Phase String Grid-Connected Photovoltaic Inverter. It assesses the current state, advancements, and potential future developments in Single-Phase String Grid-Connected Photovoltaic Inverter areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Single-Phase String Grid-Connected Photovoltaic Inverter market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Single-Phase String Grid-Connected Photovoltaic Inverter market is split by Type and by Application. For the period 2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Central Inverter

Line Inverter

Market segment by Application

PV Industry

Agriculture

Achitechive

Others

Major players covered

Huawei Technologies Co. Ltd

Sungrow Power Supply Co Ltd

SMA Solar Technology AG

SolarEdge Technologies Inc

TBEA Xinjiang SunOasis Co., Ltd.

Fimer

Delta Energy Systems Inc.

Kstar New Energy Co. Ltd

Sineng Electric Co. Ltd

Enphase Energy Inc.

ABB Ltd

Goodwe

Fronius

Growatt

Solis

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 Single-Phase String Grid-Connected Photovoltaic Inverter product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Single-Phase String Grid-Connected Photovoltaic Inverter, with price, sales, revenue and global market share of Single-Phase String Grid-Connected Photovoltaic Inverter from 2018 to 2023.

Chapter 3, the Single-Phase String Grid-Connected Photovoltaic Inverter competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Single-Phase String Grid-Connected Photovoltaic Inverter breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2018 to 2029.

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 2017 to 2022. and Single-Phase String Grid-Connected Photovoltaic Inverter market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

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 Single-Phase String Grid-Connected Photovoltaic Inverter.

Chapter 14 and 15, to describe Single-Phase String Grid-Connected Photovoltaic Inverter sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope of Single-Phase String Grid-Connected Photovoltaic Inverter

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value by Type: 2018 Versus 2022 Versus 2029

1.3.2 Central Inverter

1.3.3 Line Inverter

1.4 Market Analysis by Application

1.4.1 Overview: Global Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value by Application: 2018 Versus 2022 Versus 2029

1.4.2 PV Industry

1.4.3 Agriculture

1.4.4 Achitechive

1.4.5 Others

1.5 Global Single-Phase String Grid-Connected Photovoltaic Inverter Market Size & Forecast

1.5.1 Global Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value (2018 & 2022 & 2029)

1.5.2 Global Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity (2018-2029)

1.5.3 Global Single-Phase String Grid-Connected Photovoltaic Inverter Average Price (2018-2029)

2 MANUFACTURERS PROFILES

2.1 Huawei Technologies Co. Ltd

2.1.1 Huawei Technologies Co. Ltd Details

2.1.2 Huawei Technologies Co. Ltd Major Business

2.1.3 Huawei Technologies Co. Ltd Single-Phase String Grid-Connected Photovoltaic Inverter Product and Services

2.1.4 Huawei Technologies Co. Ltd Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.1.5 Huawei Technologies Co. Ltd Recent Developments/Updates

2.2 Sungrow Power Supply Co Ltd

2.2.1 Sungrow Power Supply Co Ltd Details

2.2.2 Sungrow Power Supply Co Ltd Major Business

2.2.3 Sungrow Power Supply Co Ltd Single-Phase String Grid-Connected Photovoltaic Inverter Product and Services

2.2.4 Sungrow Power Supply Co Ltd Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.2.5 Sungrow Power Supply Co Ltd Recent Developments/Updates

2.3 SMA Solar Technology AG

2.3.1 SMA Solar Technology AG Details

2.3.2 SMA Solar Technology AG Major Business

2.3.3 SMA Solar Technology AG Single-Phase String Grid-Connected Photovoltaic Inverter Product and Services

2.3.4 SMA Solar Technology AG Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.3.5 SMA Solar Technology AG Recent Developments/Updates

2.4 SolarEdge Technologies Inc

2.4.1 SolarEdge Technologies Inc Details

2.4.2 SolarEdge Technologies Inc Major Business

2.4.3 SolarEdge Technologies Inc Single-Phase String Grid-Connected Photovoltaic Inverter Product and Services

2.4.4 SolarEdge Technologies Inc Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.4.5 SolarEdge Technologies Inc Recent Developments/Updates

2.5 TBEA Xinjiang SunOasis Co., Ltd.

2.5.1 TBEA Xinjiang SunOasis Co., Ltd. Details

2.5.2 TBEA Xinjiang SunOasis Co., Ltd. Major Business

2.5.3 TBEA Xinjiang SunOasis Co., Ltd. Single-Phase String Grid-Connected Photovoltaic Inverter Product and Services

2.5.4 TBEA Xinjiang SunOasis Co., Ltd. Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.5.5 TBEA Xinjiang SunOasis Co., Ltd. Recent Developments/Updates

2.6 Fimer

2.6.1 Fimer Details

2.6.2 Fimer Major Business

2.6.3 Fimer Single-Phase String Grid-Connected Photovoltaic Inverter Product and Services

2.6.4 Fimer Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.6.5 Fimer Recent Developments/Updates

2.7 Delta Energy Systems Inc.

2.7.1 Delta Energy Systems Inc. Details

2.7.2 Delta Energy Systems Inc. Major Business

2.7.3 Delta Energy Systems Inc. Single-Phase String Grid-Connected Photovoltaic Inverter Product and Services

2.7.4 Delta Energy Systems Inc. Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.7.5 Delta Energy Systems Inc. Recent Developments/Updates

2.8 Kstar New Energy Co. Ltd

2.8.1 Kstar New Energy Co. Ltd Details

2.8.2 Kstar New Energy Co. Ltd Major Business

2.8.3 Kstar New Energy Co. Ltd Single-Phase String Grid-Connected Photovoltaic Inverter Product and Services

2.8.4 Kstar New Energy Co. Ltd Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.8.5 Kstar New Energy Co. Ltd Recent Developments/Updates

2.9 Sineng Electric Co. Ltd

2.9.1 Sineng Electric Co. Ltd Details

2.9.2 Sineng Electric Co. Ltd Major Business

2.9.3 Sineng Electric Co. Ltd Single-Phase String Grid-Connected Photovoltaic Inverter Product and Services

2.9.4 Sineng Electric Co. Ltd Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.9.5 Sineng Electric Co. Ltd Recent Developments/Updates

2.10 Enphase Energy Inc.

2.10.1 Enphase Energy Inc. Details

2.10.2 Enphase Energy Inc. Major Business

2.10.3 Enphase Energy Inc. Single-Phase String Grid-Connected Photovoltaic Inverter Product and Services

2.10.4 Enphase Energy Inc. Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

- 2.10.5 Enphase Energy Inc. Recent Developments/Updates
- 2.11 ABB Ltd
 - 2.11.1 ABB Ltd Details
 - 2.11.2 ABB Ltd Major Business
 - 2.11.3 ABB Ltd Single-Phase String Grid-Connected Photovoltaic Inverter Product and Services
 - 2.11.4 ABB Ltd Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.11.5 ABB Ltd Recent Developments/Updates
- 2.12 Goodwe
 - 2.12.1 Goodwe Details
 - 2.12.2 Goodwe Major Business
 - 2.12.3 Goodwe Single-Phase String Grid-Connected Photovoltaic Inverter Product and Services
 - 2.12.4 Goodwe Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.12.5 Goodwe Recent Developments/Updates
- 2.13 Fronius
 - 2.13.1 Fronius Details
 - 2.13.2 Fronius Major Business
 - 2.13.3 Fronius Single-Phase String Grid-Connected Photovoltaic Inverter Product and Services
 - 2.13.4 Fronius Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.13.5 Fronius Recent Developments/Updates
- 2.14 Growatt
 - 2.14.1 Growatt Details
 - 2.14.2 Growatt Major Business
 - 2.14.3 Growatt Single-Phase String Grid-Connected Photovoltaic Inverter Product and Services
 - 2.14.4 Growatt Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.14.5 Growatt Recent Developments/Updates
- 2.15 Solis
 - 2.15.1 Solis Details
 - 2.15.2 Solis Major Business
 - 2.15.3 Solis Single-Phase String Grid-Connected Photovoltaic Inverter Product and Services
 - 2.15.4 Solis Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity,

Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.15.5 Solis Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: SINGLE-PHASE STRING GRID-CONNECTED PHOTOVOLTAIC INVERTER BY MANUFACTURER

3.1 Global Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Manufacturer (2018-2023)

3.2 Global Single-Phase String Grid-Connected Photovoltaic Inverter Revenue by Manufacturer (2018-2023)

3.3 Global Single-Phase String Grid-Connected Photovoltaic Inverter Average Price by Manufacturer (2018-2023)

3.4 Market Share Analysis (2022)

3.4.1 Producer Shipments of Single-Phase String Grid-Connected Photovoltaic Inverter by Manufacturer Revenue (\$MM) and Market Share (%): 2022

3.4.2 Top 3 Single-Phase String Grid-Connected Photovoltaic Inverter Manufacturer Market Share in 2022

3.4.2 Top 6 Single-Phase String Grid-Connected Photovoltaic Inverter Manufacturer Market Share in 2022

3.5 Single-Phase String Grid-Connected Photovoltaic Inverter Market: Overall Company Footprint Analysis

3.5.1 Single-Phase String Grid-Connected Photovoltaic Inverter Market: Region Footprint

3.5.2 Single-Phase String Grid-Connected Photovoltaic Inverter Market: Company Product Type Footprint

3.5.3 Single-Phase String Grid-Connected Photovoltaic 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 Single-Phase String Grid-Connected Photovoltaic Inverter Market Size by Region

4.1.1 Global Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Region (2018-2029)

4.1.2 Global Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value by Region (2018-2029)

4.1.3 Global Single-Phase String Grid-Connected Photovoltaic Inverter Average Price

by Region (2018-2029)

4.2 North America Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value (2018-2029)

4.3 Europe Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value (2018-2029)

4.4 Asia-Pacific Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value (2018-2029)

4.5 South America Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value (2018-2029)

4.6 Middle East and Africa Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value (2018-2029)

5 MARKET SEGMENT BY TYPE

5.1 Global Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Type (2018-2029)

5.2 Global Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value by Type (2018-2029)

5.3 Global Single-Phase String Grid-Connected Photovoltaic Inverter Average Price by Type (2018-2029)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Application (2018-2029)

6.2 Global Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value by Application (2018-2029)

6.3 Global Single-Phase String Grid-Connected Photovoltaic Inverter Average Price by Application (2018-2029)

7 NORTH AMERICA

7.1 North America Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Type (2018-2029)

7.2 North America Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Application (2018-2029)

7.3 North America Single-Phase String Grid-Connected Photovoltaic Inverter Market Size by Country

7.3.1 North America Single-Phase String Grid-Connected Photovoltaic Inverter Sales

Quantity by Country (2018-2029)

7.3.2 North America Single-Phase String Grid-Connected Photovoltaic Inverter

Consumption Value by Country (2018-2029)

7.3.3 United States Market Size and Forecast (2018-2029)

7.3.4 Canada Market Size and Forecast (2018-2029)

7.3.5 Mexico Market Size and Forecast (2018-2029)

8 EUROPE

8.1 Europe Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Type (2018-2029)

8.2 Europe Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Application (2018-2029)

8.3 Europe Single-Phase String Grid-Connected Photovoltaic Inverter Market Size by Country

8.3.1 Europe Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Country (2018-2029)

8.3.2 Europe Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value by Country (2018-2029)

8.3.3 Germany Market Size and Forecast (2018-2029)

8.3.4 France Market Size and Forecast (2018-2029)

8.3.5 United Kingdom Market Size and Forecast (2018-2029)

8.3.6 Russia Market Size and Forecast (2018-2029)

8.3.7 Italy Market Size and Forecast (2018-2029)

9 ASIA-PACIFIC

9.1 Asia-Pacific Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Type (2018-2029)

9.2 Asia-Pacific Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Application (2018-2029)

9.3 Asia-Pacific Single-Phase String Grid-Connected Photovoltaic Inverter Market Size by Region

9.3.1 Asia-Pacific Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Region (2018-2029)

9.3.2 Asia-Pacific Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value by Region (2018-2029)

9.3.3 China Market Size and Forecast (2018-2029)

9.3.4 Japan Market Size and Forecast (2018-2029)

- 9.3.5 Korea Market Size and Forecast (2018-2029)
- 9.3.6 India Market Size and Forecast (2018-2029)
- 9.3.7 Southeast Asia Market Size and Forecast (2018-2029)
- 9.3.8 Australia Market Size and Forecast (2018-2029)

10 SOUTH AMERICA

- 10.1 South America Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Type (2018-2029)
- 10.2 South America Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Application (2018-2029)
- 10.3 South America Single-Phase String Grid-Connected Photovoltaic Inverter Market Size by Country
 - 10.3.1 South America Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Country (2018-2029)
 - 10.3.2 South America Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value by Country (2018-2029)
 - 10.3.3 Brazil Market Size and Forecast (2018-2029)
 - 10.3.4 Argentina Market Size and Forecast (2018-2029)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Type (2018-2029)
- 11.2 Middle East & Africa Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Application (2018-2029)
- 11.3 Middle East & Africa Single-Phase String Grid-Connected Photovoltaic Inverter Market Size by Country
 - 11.3.1 Middle East & Africa Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Country (2018-2029)
 - 11.3.2 Middle East & Africa Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value by Country (2018-2029)
 - 11.3.3 Turkey Market Size and Forecast (2018-2029)
 - 11.3.4 Egypt Market Size and Forecast (2018-2029)
 - 11.3.5 Saudi Arabia Market Size and Forecast (2018-2029)
 - 11.3.6 South Africa Market Size and Forecast (2018-2029)

12 MARKET DYNAMICS

- 12.1 Single-Phase String Grid-Connected Photovoltaic Inverter Market Drivers
- 12.2 Single-Phase String Grid-Connected Photovoltaic Inverter Market Restraints
- 12.3 Single-Phase String Grid-Connected Photovoltaic 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 Single-Phase String Grid-Connected Photovoltaic Inverter and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Single-Phase String Grid-Connected Photovoltaic Inverter
- 13.3 Single-Phase String Grid-Connected Photovoltaic Inverter Production Process
- 13.4 Single-Phase String Grid-Connected Photovoltaic Inverter Industrial Chain

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 Single-Phase String Grid-Connected Photovoltaic Inverter Typical Distributors
- 14.3 Single-Phase String Grid-Connected Photovoltaic 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 Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value by Type, (USD Million), 2018 & 2022 & 2029

Table 2. Global Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value by Application, (USD Million), 2018 & 2022 & 2029

Table 3. Huawei Technologies Co. Ltd Basic Information, Manufacturing Base and Competitors

Table 4. Huawei Technologies Co. Ltd Major Business

Table 5. Huawei Technologies Co. Ltd Single-Phase String Grid-Connected Photovoltaic Inverter Product and Services

Table 6. Huawei Technologies Co. Ltd Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 7. Huawei Technologies Co. Ltd Recent Developments/Updates

Table 8. Sungrow Power Supply Co Ltd Basic Information, Manufacturing Base and Competitors

Table 9. Sungrow Power Supply Co Ltd Major Business

Table 10. Sungrow Power Supply Co Ltd Single-Phase String Grid-Connected Photovoltaic Inverter Product and Services

Table 11. Sungrow Power Supply Co Ltd Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 12. Sungrow Power Supply Co Ltd Recent Developments/Updates

Table 13. SMA Solar Technology AG Basic Information, Manufacturing Base and Competitors

Table 14. SMA Solar Technology AG Major Business

Table 15. SMA Solar Technology AG Single-Phase String Grid-Connected Photovoltaic Inverter Product and Services

Table 16. SMA Solar Technology AG Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 17. SMA Solar Technology AG Recent Developments/Updates

Table 18. SolarEdge Technologies Inc Basic Information, Manufacturing Base and Competitors

Table 19. SolarEdge Technologies Inc Major Business

Table 20. SolarEdge Technologies Inc Single-Phase String Grid-Connected

Photovoltaic Inverter Product and Services

Table 21. SolarEdge Technologies Inc Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 22. SolarEdge Technologies Inc Recent Developments/Updates

Table 23. TBEA Xinjiang SunOasis Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 24. TBEA Xinjiang SunOasis Co., Ltd. Major Business

Table 25. TBEA Xinjiang SunOasis Co., Ltd. Single-Phase String Grid-Connected Photovoltaic Inverter Product and Services

Table 26. TBEA Xinjiang SunOasis Co., Ltd. Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 27. TBEA Xinjiang SunOasis Co., Ltd. Recent Developments/Updates

Table 28. Fimer Basic Information, Manufacturing Base and Competitors

Table 29. Fimer Major Business

Table 30. Fimer Single-Phase String Grid-Connected Photovoltaic Inverter Product and Services

Table 31. Fimer Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 32. Fimer Recent Developments/Updates

Table 33. Delta Energy Systems Inc. Basic Information, Manufacturing Base and Competitors

Table 34. Delta Energy Systems Inc. Major Business

Table 35. Delta Energy Systems Inc. Single-Phase String Grid-Connected Photovoltaic Inverter Product and Services

Table 36. Delta Energy Systems Inc. Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 37. Delta Energy Systems Inc. Recent Developments/Updates

Table 38. Kstar New Energy Co. Ltd Basic Information, Manufacturing Base and Competitors

Table 39. Kstar New Energy Co. Ltd Major Business

Table 40. Kstar New Energy Co. Ltd Single-Phase String Grid-Connected Photovoltaic Inverter Product and Services

Table 41. Kstar New Energy Co. Ltd Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

- Table 42. Kstar New Energy Co. Ltd Recent Developments/Updates
- Table 43. Sineng Electric Co. Ltd Basic Information, Manufacturing Base and Competitors
- Table 44. Sineng Electric Co. Ltd Major Business
- Table 45. Sineng Electric Co. Ltd Single-Phase String Grid-Connected Photovoltaic Inverter Product and Services
- Table 46. Sineng Electric Co. Ltd Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 47. Sineng Electric Co. Ltd Recent Developments/Updates
- Table 48. Enphase Energy Inc. Basic Information, Manufacturing Base and Competitors
- Table 49. Enphase Energy Inc. Major Business
- Table 50. Enphase Energy Inc. Single-Phase String Grid-Connected Photovoltaic Inverter Product and Services
- Table 51. Enphase Energy Inc. Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 52. Enphase Energy Inc. Recent Developments/Updates
- Table 53. ABB Ltd Basic Information, Manufacturing Base and Competitors
- Table 54. ABB Ltd Major Business
- Table 55. ABB Ltd Single-Phase String Grid-Connected Photovoltaic Inverter Product and Services
- Table 56. ABB Ltd Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 57. ABB Ltd Recent Developments/Updates
- Table 58. Goodwe Basic Information, Manufacturing Base and Competitors
- Table 59. Goodwe Major Business
- Table 60. Goodwe Single-Phase String Grid-Connected Photovoltaic Inverter Product and Services
- Table 61. Goodwe Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 62. Goodwe Recent Developments/Updates
- Table 63. Fronius Basic Information, Manufacturing Base and Competitors
- Table 64. Fronius Major Business
- Table 65. Fronius Single-Phase String Grid-Connected Photovoltaic Inverter Product and Services
- Table 66. Fronius Single-Phase String Grid-Connected Photovoltaic Inverter Sales

Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 67. Fronius Recent Developments/Updates

Table 68. Growatt Basic Information, Manufacturing Base and Competitors

Table 69. Growatt Major Business

Table 70. Growatt Single-Phase String Grid-Connected Photovoltaic Inverter Product and Services

Table 71. Growatt Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 72. Growatt Recent Developments/Updates

Table 73. Solis Basic Information, Manufacturing Base and Competitors

Table 74. Solis Major Business

Table 75. Solis Single-Phase String Grid-Connected Photovoltaic Inverter Product and Services

Table 76. Solis Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 77. Solis Recent Developments/Updates

Table 78. Global Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Manufacturer (2018-2023) & (K Units)

Table 79. Global Single-Phase String Grid-Connected Photovoltaic Inverter Revenue by Manufacturer (2018-2023) & (USD Million)

Table 80. Global Single-Phase String Grid-Connected Photovoltaic Inverter Average Price by Manufacturer (2018-2023) & (US\$/Unit)

Table 81. Market Position of Manufacturers in Single-Phase String Grid-Connected Photovoltaic Inverter, (Tier 1, Tier 2, and Tier 3), Based on Consumption Value in 2022

Table 82. Head Office and Single-Phase String Grid-Connected Photovoltaic Inverter Production Site of Key Manufacturer

Table 83. Single-Phase String Grid-Connected Photovoltaic Inverter Market: Company Product Type Footprint

Table 84. Single-Phase String Grid-Connected Photovoltaic Inverter Market: Company Product Application Footprint

Table 85. Single-Phase String Grid-Connected Photovoltaic Inverter New Market Entrants and Barriers to Market Entry

Table 86. Single-Phase String Grid-Connected Photovoltaic Inverter Mergers, Acquisition, Agreements, and Collaborations

Table 87. Global Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Region (2018-2023) & (K Units)

Table 88. Global Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Region (2024-2029) & (K Units)

Table 89. Global Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value by Region (2018-2023) & (USD Million)

Table 90. Global Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value by Region (2024-2029) & (USD Million)

Table 91. Global Single-Phase String Grid-Connected Photovoltaic Inverter Average Price by Region (2018-2023) & (US\$/Unit)

Table 92. Global Single-Phase String Grid-Connected Photovoltaic Inverter Average Price by Region (2024-2029) & (US\$/Unit)

Table 93. Global Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Type (2018-2023) & (K Units)

Table 94. Global Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Type (2024-2029) & (K Units)

Table 95. Global Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value by Type (2018-2023) & (USD Million)

Table 96. Global Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value by Type (2024-2029) & (USD Million)

Table 97. Global Single-Phase String Grid-Connected Photovoltaic Inverter Average Price by Type (2018-2023) & (US\$/Unit)

Table 98. Global Single-Phase String Grid-Connected Photovoltaic Inverter Average Price by Type (2024-2029) & (US\$/Unit)

Table 99. Global Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Application (2018-2023) & (K Units)

Table 100. Global Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Application (2024-2029) & (K Units)

Table 101. Global Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value by Application (2018-2023) & (USD Million)

Table 102. Global Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value by Application (2024-2029) & (USD Million)

Table 103. Global Single-Phase String Grid-Connected Photovoltaic Inverter Average Price by Application (2018-2023) & (US\$/Unit)

Table 104. Global Single-Phase String Grid-Connected Photovoltaic Inverter Average Price by Application (2024-2029) & (US\$/Unit)

Table 105. North America Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Type (2018-2023) & (K Units)

Table 106. North America Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Type (2024-2029) & (K Units)

Table 107. North America Single-Phase String Grid-Connected Photovoltaic Inverter

Sales Quantity by Application (2018-2023) & (K Units)

Table 108. North America Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Application (2024-2029) & (K Units)

Table 109. North America Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Country (2018-2023) & (K Units)

Table 110. North America Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Country (2024-2029) & (K Units)

Table 111. North America Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value by Country (2018-2023) & (USD Million)

Table 112. North America Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value by Country (2024-2029) & (USD Million)

Table 113. Europe Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Type (2018-2023) & (K Units)

Table 114. Europe Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Type (2024-2029) & (K Units)

Table 115. Europe Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Application (2018-2023) & (K Units)

Table 116. Europe Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Application (2024-2029) & (K Units)

Table 117. Europe Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Country (2018-2023) & (K Units)

Table 118. Europe Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Country (2024-2029) & (K Units)

Table 119. Europe Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value by Country (2018-2023) & (USD Million)

Table 120. Europe Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value by Country (2024-2029) & (USD Million)

Table 121. Asia-Pacific Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Type (2018-2023) & (K Units)

Table 122. Asia-Pacific Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Type (2024-2029) & (K Units)

Table 123. Asia-Pacific Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Application (2018-2023) & (K Units)

Table 124. Asia-Pacific Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Application (2024-2029) & (K Units)

Table 125. Asia-Pacific Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Region (2018-2023) & (K Units)

Table 126. Asia-Pacific Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Region (2024-2029) & (K Units)

Table 127. Asia-Pacific Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value by Region (2018-2023) & (USD Million)

Table 128. Asia-Pacific Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value by Region (2024-2029) & (USD Million)

Table 129. South America Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Type (2018-2023) & (K Units)

Table 130. South America Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Type (2024-2029) & (K Units)

Table 131. South America Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Application (2018-2023) & (K Units)

Table 132. South America Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Application (2024-2029) & (K Units)

Table 133. South America Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Country (2018-2023) & (K Units)

Table 134. South America Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Country (2024-2029) & (K Units)

Table 135. South America Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value by Country (2018-2023) & (USD Million)

Table 136. South America Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value by Country (2024-2029) & (USD Million)

Table 137. Middle East & Africa Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Type (2018-2023) & (K Units)

Table 138. Middle East & Africa Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Type (2024-2029) & (K Units)

Table 139. Middle East & Africa Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Application (2018-2023) & (K Units)

Table 140. Middle East & Africa Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Application (2024-2029) & (K Units)

Table 141. Middle East & Africa Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Region (2018-2023) & (K Units)

Table 142. Middle East & Africa Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity by Region (2024-2029) & (K Units)

Table 143. Middle East & Africa Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value by Region (2018-2023) & (USD Million)

Table 144. Middle East & Africa Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value by Region (2024-2029) & (USD Million)

Table 145. Single-Phase String Grid-Connected Photovoltaic Inverter Raw Material

Table 146. Key Manufacturers of Single-Phase String Grid-Connected Photovoltaic Inverter Raw Materials

Table 147. Single-Phase String Grid-Connected Photovoltaic Inverter Typical Distributors

Table 148. Single-Phase String Grid-Connected Photovoltaic Inverter Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Single-Phase String Grid-Connected Photovoltaic Inverter Picture
- Figure 2. Global Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value by Type, (USD Million), 2018 & 2022 & 2029
- Figure 3. Global Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value Market Share by Type in 2022
- Figure 4. Central Inverter Examples
- Figure 5. Line Inverter Examples
- Figure 6. Global Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value by Application, (USD Million), 2018 & 2022 & 2029
- Figure 7. Global Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value Market Share by Application in 2022
- Figure 8. PV Industry Examples
- Figure 9. Agriculture Examples
- Figure 10. Achitechive Examples
- Figure 11. Others Examples
- Figure 12. Global Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value, (USD Million): 2018 & 2022 & 2029
- Figure 13. Global Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value and Forecast (2018-2029) & (USD Million)
- Figure 14. Global Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity (2018-2029) & (K Units)
- Figure 15. Global Single-Phase String Grid-Connected Photovoltaic Inverter Average Price (2018-2029) & (US\$/Unit)
- Figure 16. Global Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity Market Share by Manufacturer in 2022
- Figure 17. Global Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value Market Share by Manufacturer in 2022
- Figure 18. Producer Shipments of Single-Phase String Grid-Connected Photovoltaic Inverter by Manufacturer Sales Quantity (\$MM) and Market Share (%): 2021
- Figure 19. Top 3 Single-Phase String Grid-Connected Photovoltaic Inverter Manufacturer (Consumption Value) Market Share in 2022
- Figure 20. Top 6 Single-Phase String Grid-Connected Photovoltaic Inverter Manufacturer (Consumption Value) Market Share in 2022
- Figure 21. Global Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity Market Share by Region (2018-2029)

- Figure 22. Global Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value Market Share by Region (2018-2029)
- Figure 23. North America Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value (2018-2029) & (USD Million)
- Figure 24. Europe Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value (2018-2029) & (USD Million)
- Figure 25. Asia-Pacific Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value (2018-2029) & (USD Million)
- Figure 26. South America Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value (2018-2029) & (USD Million)
- Figure 27. Middle East & Africa Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value (2018-2029) & (USD Million)
- Figure 28. Global Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity Market Share by Type (2018-2029)
- Figure 29. Global Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value Market Share by Type (2018-2029)
- Figure 30. Global Single-Phase String Grid-Connected Photovoltaic Inverter Average Price by Type (2018-2029) & (US\$/Unit)
- Figure 31. Global Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity Market Share by Application (2018-2029)
- Figure 32. Global Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value Market Share by Application (2018-2029)
- Figure 33. Global Single-Phase String Grid-Connected Photovoltaic Inverter Average Price by Application (2018-2029) & (US\$/Unit)
- Figure 34. North America Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity Market Share by Type (2018-2029)
- Figure 35. North America Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity Market Share by Application (2018-2029)
- Figure 36. North America Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity Market Share by Country (2018-2029)
- Figure 37. North America Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value Market Share by Country (2018-2029)
- Figure 38. United States Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value and Growth Rate (2018-2029) & (USD Million)
- Figure 39. Canada Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value and Growth Rate (2018-2029) & (USD Million)
- Figure 40. Mexico Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value and Growth Rate (2018-2029) & (USD Million)
- Figure 41. Europe Single-Phase String Grid-Connected Photovoltaic Inverter Sales

Quantity Market Share by Type (2018-2029)

Figure 42. Europe Single-Phase String Grid-Connected Photovoltaic Inverter Sales

Quantity Market Share by Application (2018-2029)

Figure 43. Europe Single-Phase String Grid-Connected Photovoltaic Inverter Sales

Quantity Market Share by Country (2018-2029)

Figure 44. Europe Single-Phase String Grid-Connected Photovoltaic Inverter

Consumption Value Market Share by Country (2018-2029)

Figure 45. Germany Single-Phase String Grid-Connected Photovoltaic Inverter

Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 46. France Single-Phase String Grid-Connected Photovoltaic Inverter

Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 47. United Kingdom Single-Phase String Grid-Connected Photovoltaic Inverter

Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 48. Russia Single-Phase String Grid-Connected Photovoltaic Inverter

Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 49. Italy Single-Phase String Grid-Connected Photovoltaic Inverter Consumption

Value and Growth Rate (2018-2029) & (USD Million)

Figure 50. Asia-Pacific Single-Phase String Grid-Connected Photovoltaic Inverter Sales

Quantity Market Share by Type (2018-2029)

Figure 51. Asia-Pacific Single-Phase String Grid-Connected Photovoltaic Inverter Sales

Quantity Market Share by Application (2018-2029)

Figure 52. Asia-Pacific Single-Phase String Grid-Connected Photovoltaic Inverter Sales

Quantity Market Share by Region (2018-2029)

Figure 53. Asia-Pacific Single-Phase String Grid-Connected Photovoltaic Inverter

Consumption Value Market Share by Region (2018-2029)

Figure 54. China Single-Phase String Grid-Connected Photovoltaic Inverter

Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 55. Japan Single-Phase String Grid-Connected Photovoltaic Inverter

Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 56. Korea Single-Phase String Grid-Connected Photovoltaic Inverter

Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 57. India Single-Phase String Grid-Connected Photovoltaic Inverter Consumption

Value and Growth Rate (2018-2029) & (USD Million)

Figure 58. Southeast Asia Single-Phase String Grid-Connected Photovoltaic Inverter

Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 59. Australia Single-Phase String Grid-Connected Photovoltaic Inverter

Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 60. South America Single-Phase String Grid-Connected Photovoltaic Inverter

Sales Quantity Market Share by Type (2018-2029)

Figure 61. South America Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity Market Share by Application (2018-2029)

Figure 62. South America Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity Market Share by Country (2018-2029)

Figure 63. South America Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value Market Share by Country (2018-2029)

Figure 64. Brazil Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 65. Argentina Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 66. Middle East & Africa Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity Market Share by Type (2018-2029)

Figure 67. Middle East & Africa Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity Market Share by Application (2018-2029)

Figure 68. Middle East & Africa Single-Phase String Grid-Connected Photovoltaic Inverter Sales Quantity Market Share by Region (2018-2029)

Figure 69. Middle East & Africa Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value Market Share by Region (2018-2029)

Figure 70. Turkey Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 71. Egypt Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 72. Saudi Arabia Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 73. South Africa Single-Phase String Grid-Connected Photovoltaic Inverter Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 74. Single-Phase String Grid-Connected Photovoltaic Inverter Market Drivers

Figure 75. Single-Phase String Grid-Connected Photovoltaic Inverter Market Restraints

Figure 76. Single-Phase String Grid-Connected Photovoltaic Inverter Market Trends

Figure 77. Porters Five Forces Analysis

Figure 78. Manufacturing Cost Structure Analysis of Single-Phase String Grid-Connected Photovoltaic Inverter in 2022

Figure 79. Manufacturing Process Analysis of Single-Phase String Grid-Connected Photovoltaic Inverter

Figure 80. Single-Phase String Grid-Connected Photovoltaic Inverter Industrial Chain

Figure 81. Sales Quantity Channel: Direct to End-User vs Distributors

Figure 82. Direct Channel Pros & Cons

Figure 83. Indirect Channel Pros & Cons

Figure 84. Methodology

Figure 85. Research Process and Data Source

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