

Global Residential Solar Power Inverter Market Growth 2026-2032

<https://marketpublishers.com/r/GC460F1D9CB9EN.html>

Date: March 2026

Pages: 128

Price: US\$ 3,660.00 (Single User License)

ID: GC460F1D9CB9EN

Abstracts

The global Residential Solar Power Inverter market size is predicted to grow from US\$ 6852 million in 2025 to US\$ 14680 million in 2032; it is expected to grow at a CAGR of 11.7% from 2026 to 2032.

A residential solar power inverter is an electronic device designed to convert the direct current (DC) electricity generated by solar panels into alternating current (AC) electricity suitable for use in homes. This essential component of a solar power system ensures efficient and safe utilization of solar energy for various household electrical appliances and lighting.

China has implemented the Renewable Energy Law since 2006, in which Article 4 clearly states that, the State gives first priority to the exploration of renewable energy. Over the years, various departments of the Chinese government have successively issued a large number of policies, covering production, sales, taxation, subsidies and other aspects. After setting the carbon neutrality goal in 2021, from a national perspective, the upgrading of the energy structure is ever imperative, and therefore the optoelectronic industry has great potential. The European Commission released the Net-Zero Industry Act in 2023. This bill aims to stimulate local manufacturing in Europe, reduce import dependence on China, and ensure that at least 40% of the EU's clean energy demand can be met by 2030. The EU targets an installed solar capacity of 600 GW. Overall, the European market still has a lot of room for development. US 2022 release of the Inflation Reduction Act, which includes \$369 billion for energy security and climate change investments. For the photovoltaic industry, the bill stimulates its development from multiple aspects such as corporate and individual tax credits, production subsidies, and loans throughout the industry chain, and revitalizes the domestic manufacturing industry in the United States. Japanese authorities plan to

make solar panels mandatory for new residential buildings in Tokyo from 2025 onwards. It is estimated that by 2030, photovoltaic power generation will account for 14%-16% of Japan's total power generation, and the cumulative installed capacity of photovoltaic systems will be about 117.450 GW.

LP Information, Inc. (LPI) ' newest research report, the “Residential Solar Power Inverter Industry Forecast” looks at past sales and reviews total world Residential Solar Power Inverter sales in 2025, providing a comprehensive analysis by region and market sector of projected Residential Solar Power Inverter sales for 2026 through 2032. With Residential Solar Power Inverter sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Residential Solar Power Inverter industry.

This Insight Report provides a comprehensive analysis of the global Residential Solar Power Inverter landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Residential Solar Power Inverter portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Residential Solar Power Inverter market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Residential Solar Power Inverter and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Residential Solar Power Inverter.

This report presents a comprehensive overview, market shares, and growth opportunities of Residential Solar Power Inverter market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

String Solar Inverter

Hybrid Inverter

Others

Segmentation by Application:

Community

Apartment

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

General Electric

SMA Solar Technology AG

Sungrow

Darfon Electronics Corp.

Schneider Electric

Enphase Energy

Siemens, Fimer Group

Eaton SolarEdge Technologies

Huawei Technologies

Fronius International GmbH

Delta Electronics

Altenergy Power System

Hitachi Hi-Rel Power Electronics Pvt. Ltd.

TMEIC

Sineng Electric

Tabuchi Electric

Canadian Solar

Panasonic Corporation

GoodWe

Key Questions Addressed in this Report

What is the 10-year outlook for the global Residential Solar Power Inverter market?

What factors are driving Residential Solar Power Inverter market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Residential Solar Power Inverter market opportunities vary by end market size?

How does Residential Solar Power Inverter break out by Type, by Application?

The report requires updating with new data and is sent in 48 hours after order is placed.

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Residential Solar Power Inverter Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Residential Solar Power Inverter by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Residential Solar Power Inverter by Country/Region, 2021, 2025 & 2032
- 2.2 Residential Solar Power Inverter Segment by Type
 - 2.2.1 String Solar Inverter
 - 2.2.2 Hybrid Inverter
 - 2.2.3 Others
 - 2.2.4 Residential Solar Power Inverter Sales by Type
 - 2.2.4.1 Global Residential Solar Power Inverter Sales Market Share by Type (2021-2026)
 - 2.2.4.2 Global Residential Solar Power Inverter Revenue and Market Share by Type (2021-2026)
 - 2.2.4.3 Global Residential Solar Power Inverter Sale Price by Type (2021-2026)
- 2.3 Residential Solar Power Inverter Segment by Application
 - 2.3.1 Community
 - 2.3.2 Apartment
 - 2.3.3 Others
 - 2.3.4 Residential Solar Power Inverter Sales by Application
 - 2.3.4.1 Global Residential Solar Power Inverter Sale Market Share by Application (2021-2026)
 - 2.3.4.2 Global Residential Solar Power Inverter Revenue and Market Share by

Application (2021-2026)

2.3.4.3 Global Residential Solar Power Inverter Sale Price by Application
(2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Residential Solar Power Inverter Breakdown Data by Company

3.1.1 Global Residential Solar Power Inverter Annual Sales by Company (2021-2026)

3.1.2 Global Residential Solar Power Inverter Sales Market Share by Company
(2021-2026)

3.2 Global Residential Solar Power Inverter Annual Revenue by Company (2021-2026)

3.2.1 Global Residential Solar Power Inverter Revenue by Company (2021-2026)

3.2.2 Global Residential Solar Power Inverter Revenue Market Share by Company
(2021-2026)

3.3 Global Residential Solar Power Inverter Sale Price by Company

3.4 Key Manufacturers Residential Solar Power Inverter Producing Area Distribution,
Sales Area, Product Type

3.4.1 Key Manufacturers Residential Solar Power Inverter Product Location
Distribution

3.4.2 Players Residential Solar Power Inverter Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR RESIDENTIAL SOLAR POWER INVERTER BY GEOGRAPHIC REGION

4.1 World Historic Residential Solar Power Inverter Market Size by Geographic Region
(2021-2026)

4.1.1 Global Residential Solar Power Inverter Annual Sales by Geographic Region
(2021-2026)

4.1.2 Global Residential Solar Power Inverter Annual Revenue by Geographic Region
(2021-2026)

4.2 World Historic Residential Solar Power Inverter Market Size by Country/Region
(2021-2026)

4.2.1 Global Residential Solar Power Inverter Annual Sales by Country/Region
(2021-2026)

4.2.2 Global Residential Solar Power Inverter Annual Revenue by Country/Region (2021-2026)

4.3 Americas Residential Solar Power Inverter Sales Growth

4.4 APAC Residential Solar Power Inverter Sales Growth

4.5 Europe Residential Solar Power Inverter Sales Growth

4.6 Middle East & Africa Residential Solar Power Inverter Sales Growth

5 AMERICAS

5.1 Americas Residential Solar Power Inverter Sales by Country

5.1.1 Americas Residential Solar Power Inverter Sales by Country (2021-2026)

5.1.2 Americas Residential Solar Power Inverter Revenue by Country (2021-2026)

5.2 Americas Residential Solar Power Inverter Sales by Type (2021-2026)

5.3 Americas Residential Solar Power Inverter Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Residential Solar Power Inverter Sales by Region

6.1.1 APAC Residential Solar Power Inverter Sales by Region (2021-2026)

6.1.2 APAC Residential Solar Power Inverter Revenue by Region (2021-2026)

6.2 APAC Residential Solar Power Inverter Sales by Type (2021-2026)

6.3 APAC Residential Solar Power Inverter Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Residential Solar Power Inverter by Country

7.1.1 Europe Residential Solar Power Inverter Sales by Country (2021-2026)

7.1.2 Europe Residential Solar Power Inverter Revenue by Country (2021-2026)

- 7.2 Europe Residential Solar Power Inverter Sales by Type (2021-2026)
- 7.3 Europe Residential Solar Power Inverter Sales by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Residential Solar Power Inverter by Country
 - 8.1.1 Middle East & Africa Residential Solar Power Inverter Sales by Country (2021-2026)
 - 8.1.2 Middle East & Africa Residential Solar Power Inverter Revenue by Country (2021-2026)
- 8.2 Middle East & Africa Residential Solar Power Inverter Sales by Type (2021-2026)
- 8.3 Middle East & Africa Residential Solar Power Inverter Sales by Application (2021-2026)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of Residential Solar Power Inverter
- 10.3 Manufacturing Process Analysis of Residential Solar Power Inverter
- 10.4 Industry Chain Structure of Residential Solar Power Inverter

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 Residential Solar Power Inverter Distributors
- 11.3 Residential Solar Power Inverter Customer

12 WORLD FORECAST REVIEW FOR RESIDENTIAL SOLAR POWER INVERTER BY GEOGRAPHIC REGION

- 12.1 Global Residential Solar Power Inverter Market Size Forecast by Region
 - 12.1.1 Global Residential Solar Power Inverter Forecast by Region (2027-2032)
 - 12.1.2 Global Residential Solar Power Inverter Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Residential Solar Power Inverter Forecast by Type (2027-2032)
- 12.7 Global Residential Solar Power Inverter Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

- 13.1 General Electric
 - 13.1.1 General Electric Company Information
 - 13.1.2 General Electric Residential Solar Power Inverter Product Portfolios and Specifications
 - 13.1.3 General Electric Residential Solar Power Inverter Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.1.4 General Electric Main Business Overview
 - 13.1.5 General Electric Latest Developments
- 13.2 SMA Solar Technology AG
 - 13.2.1 SMA Solar Technology AG Company Information
 - 13.2.2 SMA Solar Technology AG Residential Solar Power Inverter Product Portfolios and Specifications
 - 13.2.3 SMA Solar Technology AG Residential Solar Power Inverter Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.2.4 SMA Solar Technology AG Main Business Overview
 - 13.2.5 SMA Solar Technology AG Latest Developments
- 13.3 Sungrow

- 13.3.1 Sungrow Company Information
- 13.3.2 Sungrow Residential Solar Power Inverter Product Portfolios and Specifications
- 13.3.3 Sungrow Residential Solar Power Inverter Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.3.4 Sungrow Main Business Overview
- 13.3.5 Sungrow Latest Developments
- 13.4 Darfon Electronics Corp.
 - 13.4.1 Darfon Electronics Corp. Company Information
 - 13.4.2 Darfon Electronics Corp. Residential Solar Power Inverter Product Portfolios and Specifications
 - 13.4.3 Darfon Electronics Corp. Residential Solar Power Inverter Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 Darfon Electronics Corp. Main Business Overview
 - 13.4.5 Darfon Electronics Corp. Latest Developments
- 13.5 Schneider Electric
 - 13.5.1 Schneider Electric Company Information
 - 13.5.2 Schneider Electric Residential Solar Power Inverter Product Portfolios and Specifications
 - 13.5.3 Schneider Electric Residential Solar Power Inverter Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 Schneider Electric Main Business Overview
 - 13.5.5 Schneider Electric Latest Developments
- 13.6 Enphase Energy
 - 13.6.1 Enphase Energy Company Information
 - 13.6.2 Enphase Energy Residential Solar Power Inverter Product Portfolios and Specifications
 - 13.6.3 Enphase Energy Residential Solar Power Inverter Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 Enphase Energy Main Business Overview
 - 13.6.5 Enphase Energy Latest Developments
- 13.7 Siemens, Fimer Group
 - 13.7.1 Siemens, Fimer Group Company Information
 - 13.7.2 Siemens, Fimer Group Residential Solar Power Inverter Product Portfolios and Specifications
 - 13.7.3 Siemens, Fimer Group Residential Solar Power Inverter Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 Siemens, Fimer Group Main Business Overview
 - 13.7.5 Siemens, Fimer Group Latest Developments
- 13.8 Eaton SolarEdge Technologies

- 13.8.1 Eaton SolarEdge Technologies Company Information
- 13.8.2 Eaton SolarEdge Technologies Residential Solar Power Inverter Product Portfolios and Specifications
- 13.8.3 Eaton SolarEdge Technologies Residential Solar Power Inverter Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.8.4 Eaton SolarEdge Technologies Main Business Overview
- 13.8.5 Eaton SolarEdge Technologies Latest Developments
- 13.9 Huawei Technologies
 - 13.9.1 Huawei Technologies Company Information
 - 13.9.2 Huawei Technologies Residential Solar Power Inverter Product Portfolios and Specifications
 - 13.9.3 Huawei Technologies Residential Solar Power Inverter Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.9.4 Huawei Technologies Main Business Overview
 - 13.9.5 Huawei Technologies Latest Developments
- 13.10 Fronius International GmbH
 - 13.10.1 Fronius International GmbH Company Information
 - 13.10.2 Fronius International GmbH Residential Solar Power Inverter Product Portfolios and Specifications
 - 13.10.3 Fronius International GmbH Residential Solar Power Inverter Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.10.4 Fronius International GmbH Main Business Overview
 - 13.10.5 Fronius International GmbH Latest Developments
- 13.11 Delta Electronics
 - 13.11.1 Delta Electronics Company Information
 - 13.11.2 Delta Electronics Residential Solar Power Inverter Product Portfolios and Specifications
 - 13.11.3 Delta Electronics Residential Solar Power Inverter Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.11.4 Delta Electronics Main Business Overview
 - 13.11.5 Delta Electronics Latest Developments
- 13.12 Altenergy Power System
 - 13.12.1 Altenergy Power System Company Information
 - 13.12.2 Altenergy Power System Residential Solar Power Inverter Product Portfolios and Specifications
 - 13.12.3 Altenergy Power System Residential Solar Power Inverter Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.12.4 Altenergy Power System Main Business Overview
 - 13.12.5 Altenergy Power System Latest Developments

13.13 Hitachi Hi-Rel Power Electronics Pvt. Ltd.

13.13.1 Hitachi Hi-Rel Power Electronics Pvt. Ltd. Company Information

13.13.2 Hitachi Hi-Rel Power Electronics Pvt. Ltd. Residential Solar Power Inverter Product Portfolios and Specifications

13.13.3 Hitachi Hi-Rel Power Electronics Pvt. Ltd. Residential Solar Power Inverter Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 Hitachi Hi-Rel Power Electronics Pvt. Ltd. Main Business Overview

13.13.5 Hitachi Hi-Rel Power Electronics Pvt. Ltd. Latest Developments

13.14 TMEIC

13.14.1 TMEIC Company Information

13.14.2 TMEIC Residential Solar Power Inverter Product Portfolios and Specifications

13.14.3 TMEIC Residential Solar Power Inverter Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 TMEIC Main Business Overview

13.14.5 TMEIC Latest Developments

13.15 Sineng Electric

13.15.1 Sineng Electric Company Information

13.15.2 Sineng Electric Residential Solar Power Inverter Product Portfolios and Specifications

13.15.3 Sineng Electric Residential Solar Power Inverter Sales, Revenue, Price and Gross Margin (2021-2026)

13.15.4 Sineng Electric Main Business Overview

13.15.5 Sineng Electric Latest Developments

13.16 Tabuchi Electric

13.16.1 Tabuchi Electric Company Information

13.16.2 Tabuchi Electric Residential Solar Power Inverter Product Portfolios and Specifications

13.16.3 Tabuchi Electric Residential Solar Power Inverter Sales, Revenue, Price and Gross Margin (2021-2026)

13.16.4 Tabuchi Electric Main Business Overview

13.16.5 Tabuchi Electric Latest Developments

13.17 Canadian Solar

13.17.1 Canadian Solar Company Information

13.17.2 Canadian Solar Residential Solar Power Inverter Product Portfolios and Specifications

13.17.3 Canadian Solar Residential Solar Power Inverter Sales, Revenue, Price and Gross Margin (2021-2026)

13.17.4 Canadian Solar Main Business Overview

13.17.5 Canadian Solar Latest Developments

13.18 Panasonic Corporation

13.18.1 Panasonic Corporation Company Information

13.18.2 Panasonic Corporation Residential Solar Power Inverter Product Portfolios and Specifications

13.18.3 Panasonic Corporation Residential Solar Power Inverter Sales, Revenue, Price and Gross Margin (2021-2026)

13.18.4 Panasonic Corporation Main Business Overview

13.18.5 Panasonic Corporation Latest Developments

13.19 GoodWe

13.19.1 GoodWe Company Information

13.19.2 GoodWe Residential Solar Power Inverter Product Portfolios and Specifications

13.19.3 GoodWe Residential Solar Power Inverter Sales, Revenue, Price and Gross Margin (2021-2026)

13.19.4 GoodWe Main Business Overview

13.19.5 GoodWe Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

- Table 1. Residential Solar Power Inverter Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Table 2. Residential Solar Power Inverter Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)
- Table 3. Major Players of String Solar Inverter
- Table 4. Major Players of Hybrid Inverter
- Table 5. Major Players of Others
- Table 6. Global Residential Solar Power Inverter Sales by Type (2021-2026) & (K Units)
- Table 7. Global Residential Solar Power Inverter Sales Market Share by Type (2021-2026)
- Table 8. Global Residential Solar Power Inverter Revenue by Type (2021-2026) & (\$ million)
- Table 9. Global Residential Solar Power Inverter Revenue Market Share by Type (2021-2026)
- Table 10. Global Residential Solar Power Inverter Sale Price by Type (2021-2026) & (US\$/Unit)
- Table 11. Global Residential Solar Power Inverter Sale by Application (2021-2026) & (K Units)
- Table 12. Global Residential Solar Power Inverter Sale Market Share by Application (2021-2026)
- Table 13. Global Residential Solar Power Inverter Revenue by Application (2021-2026) & (\$ million)
- Table 14. Global Residential Solar Power Inverter Revenue Market Share by Application (2021-2026)
- Table 15. Global Residential Solar Power Inverter Sale Price by Application (2021-2026) & (US\$/Unit)
- Table 16. Global Residential Solar Power Inverter Sales by Company (2021-2026) & (K Units)
- Table 17. Global Residential Solar Power Inverter Sales Market Share by Company (2021-2026)
- Table 18. Global Residential Solar Power Inverter Revenue by Company (2021-2026) & (\$ millions)
- Table 19. Global Residential Solar Power Inverter Revenue Market Share by Company (2021-2026)
- Table 20. Global Residential Solar Power Inverter Sale Price by Company (2021-2026)

& (US\$/Unit)

Table 21. Key Manufacturers Residential Solar Power Inverter Producing Area Distribution and Sales Area

Table 22. Players Residential Solar Power Inverter Products Offered

Table 23. Residential Solar Power Inverter Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 24. New Products and Potential Entrants

Table 25. Market M&A Activity & Strategy

Table 26. Global Residential Solar Power Inverter Sales by Geographic Region (2021-2026) & (K Units)

Table 27. Global Residential Solar Power Inverter Sales Market Share Geographic Region (2021-2026)

Table 28. Global Residential Solar Power Inverter Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 29. Global Residential Solar Power Inverter Revenue Market Share by Geographic Region (2021-2026)

Table 30. Global Residential Solar Power Inverter Sales by Country/Region (2021-2026) & (K Units)

Table 31. Global Residential Solar Power Inverter Sales Market Share by Country/Region (2021-2026)

Table 32. Global Residential Solar Power Inverter Revenue by Country/Region (2021-2026) & (\$ millions)

Table 33. Global Residential Solar Power Inverter Revenue Market Share by Country/Region (2021-2026)

Table 34. Americas Residential Solar Power Inverter Sales by Country (2021-2026) & (K Units)

Table 35. Americas Residential Solar Power Inverter Sales Market Share by Country (2021-2026)

Table 36. Americas Residential Solar Power Inverter Revenue by Country (2021-2026) & (\$ millions)

Table 37. Americas Residential Solar Power Inverter Sales by Type (2021-2026) & (K Units)

Table 38. Americas Residential Solar Power Inverter Sales by Application (2021-2026) & (K Units)

Table 39. APAC Residential Solar Power Inverter Sales by Region (2021-2026) & (K Units)

Table 40. APAC Residential Solar Power Inverter Sales Market Share by Region (2021-2026)

Table 41. APAC Residential Solar Power Inverter Revenue by Region (2021-2026) & (\$

millions)

Table 42. APAC Residential Solar Power Inverter Sales by Type (2021-2026) & (K Units)

Table 43. APAC Residential Solar Power Inverter Sales by Application (2021-2026) & (K Units)

Table 44. Europe Residential Solar Power Inverter Sales by Country (2021-2026) & (K Units)

Table 45. Europe Residential Solar Power Inverter Revenue by Country (2021-2026) & (\$ millions)

Table 46. Europe Residential Solar Power Inverter Sales by Type (2021-2026) & (K Units)

Table 47. Europe Residential Solar Power Inverter Sales by Application (2021-2026) & (K Units)

Table 48. Middle East & Africa Residential Solar Power Inverter Sales by Country (2021-2026) & (K Units)

Table 49. Middle East & Africa Residential Solar Power Inverter Revenue Market Share by Country (2021-2026)

Table 50. Middle East & Africa Residential Solar Power Inverter Sales by Type (2021-2026) & (K Units)

Table 51. Middle East & Africa Residential Solar Power Inverter Sales by Application (2021-2026) & (K Units)

Table 52. Key Market Drivers & Growth Opportunities of Residential Solar Power Inverter

Table 53. Key Market Challenges & Risks of Residential Solar Power Inverter

Table 54. Key Industry Trends of Residential Solar Power Inverter

Table 55. Residential Solar Power Inverter Raw Material

Table 56. Key Suppliers of Raw Materials

Table 57. Residential Solar Power Inverter Distributors List

Table 58. Residential Solar Power Inverter Customer List

Table 59. Global Residential Solar Power Inverter Sales Forecast by Region (2027-2032) & (K Units)

Table 60. Global Residential Solar Power Inverter Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 61. Americas Residential Solar Power Inverter Sales Forecast by Country (2027-2032) & (K Units)

Table 62. Americas Residential Solar Power Inverter Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 63. APAC Residential Solar Power Inverter Sales Forecast by Region (2027-2032) & (K Units)

- Table 64. APAC Residential Solar Power Inverter Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
- Table 65. Europe Residential Solar Power Inverter Sales Forecast by Country (2027-2032) & (K Units)
- Table 66. Europe Residential Solar Power Inverter Revenue Forecast by Country (2027-2032) & (\$ millions)
- Table 67. Middle East & Africa Residential Solar Power Inverter Sales Forecast by Country (2027-2032) & (K Units)
- Table 68. Middle East & Africa Residential Solar Power Inverter Revenue Forecast by Country (2027-2032) & (\$ millions)
- Table 69. Global Residential Solar Power Inverter Sales Forecast by Type (2027-2032) & (K Units)
- Table 70. Global Residential Solar Power Inverter Revenue Forecast by Type (2027-2032) & (\$ millions)
- Table 71. Global Residential Solar Power Inverter Sales Forecast by Application (2027-2032) & (K Units)
- Table 72. Global Residential Solar Power Inverter Revenue Forecast by Application (2027-2032) & (\$ millions)
- Table 73. General Electric Basic Information, Residential Solar Power Inverter Manufacturing Base, Sales Area and Its Competitors
- Table 74. General Electric Residential Solar Power Inverter Product Portfolios and Specifications
- Table 75. General Electric Residential Solar Power Inverter Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 76. General Electric Main Business
- Table 77. General Electric Latest Developments
- Table 78. SMA Solar Technology AG Basic Information, Residential Solar Power Inverter Manufacturing Base, Sales Area and Its Competitors
- Table 79. SMA Solar Technology AG Residential Solar Power Inverter Product Portfolios and Specifications
- Table 80. SMA Solar Technology AG Residential Solar Power Inverter Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 81. SMA Solar Technology AG Main Business
- Table 82. SMA Solar Technology AG Latest Developments
- Table 83. Sungrow Basic Information, Residential Solar Power Inverter Manufacturing Base, Sales Area and Its Competitors
- Table 84. Sungrow Residential Solar Power Inverter Product Portfolios and Specifications
- Table 85. Sungrow Residential Solar Power Inverter Sales (K Units), Revenue (\$

Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 86. Sungrow Main Business

Table 87. Sungrow Latest Developments

Table 88. Darfon Electronics Corp. Basic Information, Residential Solar Power Inverter Manufacturing Base, Sales Area and Its Competitors

Table 89. Darfon Electronics Corp. Residential Solar Power Inverter Product Portfolios and Specifications

Table 90. Darfon Electronics Corp. Residential Solar Power Inverter Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 91. Darfon Electronics Corp. Main Business

Table 92. Darfon Electronics Corp. Latest Developments

Table 93. Schneider Electric Basic Information, Residential Solar Power Inverter Manufacturing Base, Sales Area and Its Competitors

Table 94. Schneider Electric Residential Solar Power Inverter Product Portfolios and Specifications

Table 95. Schneider Electric Residential Solar Power Inverter Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 96. Schneider Electric Main Business

Table 97. Schneider Electric Latest Developments

Table 98. Enphase Energy Basic Information, Residential Solar Power Inverter Manufacturing Base, Sales Area and Its Competitors

Table 99. Enphase Energy Residential Solar Power Inverter Product Portfolios and Specifications

Table 100. Enphase Energy Residential Solar Power Inverter Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 101. Enphase Energy Main Business

Table 102. Enphase Energy Latest Developments

Table 103. Siemens, Fimer Group Basic Information, Residential Solar Power Inverter Manufacturing Base, Sales Area and Its Competitors

Table 104. Siemens, Fimer Group Residential Solar Power Inverter Product Portfolios and Specifications

Table 105. Siemens, Fimer Group Residential Solar Power Inverter Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 106. Siemens, Fimer Group Main Business

Table 107. Siemens, Fimer Group Latest Developments

Table 108. Eaton SolarEdge Technologies Basic Information, Residential Solar Power Inverter Manufacturing Base, Sales Area and Its Competitors

Table 109. Eaton SolarEdge Technologies Residential Solar Power Inverter Product Portfolios and Specifications

Table 110. Eaton SolarEdge Technologies Residential Solar Power Inverter Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 111. Eaton SolarEdge Technologies Main Business

Table 112. Eaton SolarEdge Technologies Latest Developments

Table 113. Huawei Technologies Basic Information, Residential Solar Power Inverter Manufacturing Base, Sales Area and Its Competitors

Table 114. Huawei Technologies Residential Solar Power Inverter Product Portfolios and Specifications

Table 115. Huawei Technologies Residential Solar Power Inverter Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 116. Huawei Technologies Main Business

Table 117. Huawei Technologies Latest Developments

Table 118. Fronius International GmbH Basic Information, Residential Solar Power Inverter Manufacturing Base, Sales Area and Its Competitors

Table 119. Fronius International GmbH Residential Solar Power Inverter Product Portfolios and Specifications

Table 120. Fronius International GmbH Residential Solar Power Inverter Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 121. Fronius International GmbH Main Business

Table 122. Fronius International GmbH Latest Developments

Table 123. Delta Electronics Basic Information, Residential Solar Power Inverter Manufacturing Base, Sales Area and Its Competitors

Table 124. Delta Electronics Residential Solar Power Inverter Product Portfolios and Specifications

Table 125. Delta Electronics Residential Solar Power Inverter Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 126. Delta Electronics Main Business

Table 127. Delta Electronics Latest Developments

Table 128. Altenergy Power System Basic Information, Residential Solar Power Inverter Manufacturing Base, Sales Area and Its Competitors

Table 129. Altenergy Power System Residential Solar Power Inverter Product Portfolios and Specifications

Table 130. Altenergy Power System Residential Solar Power Inverter Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 131. Altenergy Power System Main Business

Table 132. Altenergy Power System Latest Developments

Table 133. Hitachi Hi-Rel Power Electronics Pvt. Ltd. Basic Information, Residential Solar Power Inverter Manufacturing Base, Sales Area and Its Competitors

Table 134. Hitachi Hi-Rel Power Electronics Pvt. Ltd. Residential Solar Power Inverter

Product Portfolios and Specifications

Table 135. Hitachi Hi-Rel Power Electronics Pvt. Ltd. Residential Solar Power Inverter Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 136. Hitachi Hi-Rel Power Electronics Pvt. Ltd. Main Business

Table 137. Hitachi Hi-Rel Power Electronics Pvt. Ltd. Latest Developments

Table 138. TMEIC Basic Information, Residential Solar Power Inverter Manufacturing Base, Sales Area and Its Competitors

Table 139. TMEIC Residential Solar Power Inverter Product Portfolios and Specifications

Table 140. TMEIC Residential Solar Power Inverter Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 141. TMEIC Main Business

Table 142. TMEIC Latest Developments

Table 143. Sineng Electric Basic Information, Residential Solar Power Inverter Manufacturing Base, Sales Area and Its Competitors

Table 144. Sineng Electric Residential Solar Power Inverter Product Portfolios and Specifications

Table 145. Sineng Electric Residential Solar Power Inverter Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 146. Sineng Electric Main Business

Table 147. Sineng Electric Latest Developments

Table 148. Tabuchi Electric Basic Information, Residential Solar Power Inverter Manufacturing Base, Sales Area and Its Competitors

Table 149. Tabuchi Electric Residential Solar Power Inverter Product Portfolios and Specifications

Table 150. Tabuchi Electric Residential Solar Power Inverter Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 151. Tabuchi Electric Main Business

Table 152. Tabuchi Electric Latest Developments

Table 153. Canadian Solar Basic Information, Residential Solar Power Inverter Manufacturing Base, Sales Area and Its Competitors

Table 154. Canadian Solar Residential Solar Power Inverter Product Portfolios and Specifications

Table 155. Canadian Solar Residential Solar Power Inverter Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 156. Canadian Solar Main Business

Table 157. Canadian Solar Latest Developments

Table 158. Panasonic Corporation Basic Information, Residential Solar Power Inverter Manufacturing Base, Sales Area and Its Competitors

Table 159. Panasonic Corporation Residential Solar Power Inverter Product Portfolios and Specifications

Table 160. Panasonic Corporation Residential Solar Power Inverter Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 161. Panasonic Corporation Main Business

Table 162. Panasonic Corporation Latest Developments

Table 163. GoodWe Basic Information, Residential Solar Power Inverter Manufacturing Base, Sales Area and Its Competitors

Table 164. GoodWe Residential Solar Power Inverter Product Portfolios and Specifications

Table 165. GoodWe Residential Solar Power Inverter Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 166. GoodWe Main Business

Table 167. GoodWe Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Residential Solar Power Inverter
- Figure 2. Residential Solar Power Inverter Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Residential Solar Power Inverter Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global Residential Solar Power Inverter Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Residential Solar Power Inverter Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Residential Solar Power Inverter Sales Market Share by Country/Region (2025)
- Figure 10. Residential Solar Power Inverter Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of String Solar Inverter
- Figure 12. Product Picture of Hybrid Inverter
- Figure 13. Product Picture of Others
- Figure 14. Global Residential Solar Power Inverter Sales Market Share by Type in 2026
- Figure 15. Global Residential Solar Power Inverter Revenue Market Share by Type (2021-2026)
- Figure 16. Residential Solar Power Inverter Consumed in Community
- Figure 17. Global Residential Solar Power Inverter Market: Community (2021-2026) & (K Units)
- Figure 18. Residential Solar Power Inverter Consumed in Apartment
- Figure 19. Global Residential Solar Power Inverter Market: Apartment (2021-2026) & (K Units)
- Figure 20. Residential Solar Power Inverter Consumed in Others
- Figure 21. Global Residential Solar Power Inverter Market: Others (2021-2026) & (K Units)
- Figure 22. Global Residential Solar Power Inverter Sale Market Share by Application (2025)
- Figure 23. Global Residential Solar Power Inverter Revenue Market Share by Application in 2026
- Figure 24. Residential Solar Power Inverter Sales by Company in 2026 (K Units)

- Figure 25. Global Residential Solar Power Inverter Sales Market Share by Company in 2026
- Figure 26. Residential Solar Power Inverter Revenue by Company in 2026 (\$ millions)
- Figure 27. Global Residential Solar Power Inverter Revenue Market Share by Company in 2026
- Figure 28. Global Residential Solar Power Inverter Sales Market Share by Geographic Region (2021-2026)
- Figure 29. Global Residential Solar Power Inverter Revenue Market Share by Geographic Region in 2026
- Figure 30. Americas Residential Solar Power Inverter Sales 2021-2026 (K Units)
- Figure 31. Americas Residential Solar Power Inverter Revenue 2021-2026 (\$ millions)
- Figure 32. APAC Residential Solar Power Inverter Sales 2021-2026 (K Units)
- Figure 33. APAC Residential Solar Power Inverter Revenue 2021-2026 (\$ millions)
- Figure 34. Europe Residential Solar Power Inverter Sales 2021-2026 (K Units)
- Figure 35. Europe Residential Solar Power Inverter Revenue 2021-2026 (\$ millions)
- Figure 36. Middle East & Africa Residential Solar Power Inverter Sales 2021-2026 (K Units)
- Figure 37. Middle East & Africa Residential Solar Power Inverter Revenue 2021-2026 (\$ millions)
- Figure 38. Americas Residential Solar Power Inverter Sales Market Share by Country in 2026
- Figure 39. Americas Residential Solar Power Inverter Revenue Market Share by Country (2021-2026)
- Figure 40. Americas Residential Solar Power Inverter Sales Market Share by Type (2021-2026)
- Figure 41. Americas Residential Solar Power Inverter Sales Market Share by Application (2021-2026)
- Figure 42. United States Residential Solar Power Inverter Revenue Growth 2021-2026 (\$ millions)
- Figure 43. Canada Residential Solar Power Inverter Revenue Growth 2021-2026 (\$ millions)
- Figure 44. Mexico Residential Solar Power Inverter Revenue Growth 2021-2026 (\$ millions)
- Figure 45. Brazil Residential Solar Power Inverter Revenue Growth 2021-2026 (\$ millions)
- Figure 46. APAC Residential Solar Power Inverter Sales Market Share by Region in 2026
- Figure 47. APAC Residential Solar Power Inverter Revenue Market Share by Region (2021-2026)

Figure 48. APAC Residential Solar Power Inverter Sales Market Share by Type (2021-2026)

Figure 49. APAC Residential Solar Power Inverter Sales Market Share by Application (2021-2026)

Figure 50. China Residential Solar Power Inverter Revenue Growth 2021-2026 (\$ millions)

Figure 51. Japan Residential Solar Power Inverter Revenue Growth 2021-2026 (\$ millions)

Figure 52. South Korea Residential Solar Power Inverter Revenue Growth 2021-2026 (\$ millions)

Figure 53. Southeast Asia Residential Solar Power Inverter Revenue Growth 2021-2026 (\$ millions)

Figure 54. India Residential Solar Power Inverter Revenue Growth 2021-2026 (\$ millions)

Figure 55. Australia Residential Solar Power Inverter Revenue Growth 2021-2026 (\$ millions)

Figure 56. China Taiwan Residential Solar Power Inverter Revenue Growth 2021-2026 (\$ millions)

Figure 57. Europe Residential Solar Power Inverter Sales Market Share by Country in 2026

Figure 58. Europe Residential Solar Power Inverter Revenue Market Share by Country (2021-2026)

Figure 59. Europe Residential Solar Power Inverter Sales Market Share by Type (2021-2026)

Figure 60. Europe Residential Solar Power Inverter Sales Market Share by Application (2021-2026)

Figure 61. Germany Residential Solar Power Inverter Revenue Growth 2021-2026 (\$ millions)

Figure 62. France Residential Solar Power Inverter Revenue Growth 2021-2026 (\$ millions)

Figure 63. UK Residential Solar Power Inverter Revenue Growth 2021-2026 (\$ millions)

Figure 64. Italy Residential Solar Power Inverter Revenue Growth 2021-2026 (\$ millions)

Figure 65. Russia Residential Solar Power Inverter Revenue Growth 2021-2026 (\$ millions)

Figure 66. Middle East & Africa Residential Solar Power Inverter Sales Market Share by Country (2021-2026)

Figure 67. Middle East & Africa Residential Solar Power Inverter Sales Market Share by Type (2021-2026)

Figure 68. Middle East & Africa Residential Solar Power Inverter Sales Market Share by Application (2021-2026)

Figure 69. Egypt Residential Solar Power Inverter Revenue Growth 2021-2026 (\$ millions)

Figure 70. South Africa Residential Solar Power Inverter Revenue Growth 2021-2026 (\$ millions)

Figure 71. Israel Residential Solar Power Inverter Revenue Growth 2021-2026 (\$ millions)

Figure 72. Turkey Residential Solar Power Inverter Revenue Growth 2021-2026 (\$ millions)

Figure 73. GCC Countries Residential Solar Power Inverter Revenue Growth 2021-2026 (\$ millions)

Figure 74. Manufacturing Cost Structure Analysis of Residential Solar Power Inverter in 2026

Figure 75. Manufacturing Process Analysis of Residential Solar Power Inverter

Figure 76. Industry Chain Structure of Residential Solar Power Inverter

Figure 77. Channels of Distribution

Figure 78. Global Residential Solar Power Inverter Sales Market Forecast by Region (2027-2032)

Figure 79. Global Residential Solar Power Inverter Revenue Market Share Forecast by Region (2027-2032)

Figure 80. Global Residential Solar Power Inverter Sales Market Share Forecast by Type (2027-2032)

Figure 81. Global Residential Solar Power Inverter Revenue Market Share Forecast by Type (2027-2032)

Figure 82. Global Residential Solar Power Inverter Sales Market Share Forecast by Application (2027-2032)

Figure 83. Global Residential Solar Power Inverter Revenue Market Share Forecast by Application (2027-2032)

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