

Global Residential Rooftop PV Systems Market Growth 2026-2032

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Abstracts

The global Residential Rooftop PV Systems market size is predicted to grow from US\$ 179176 million in 2025 to US\$ 435285 million in 2032; it is expected to grow at a CAGR of 13.6% from 2026 to 2032.

In 2025, global Residential Rooftop PV Systems production reached approximately 16.7 million systems, with an average global market price of around US\$ 11,000 per system. Annual production capacity is 19 million systems. Gross Profit Margin: 32%. Residential Rooftop PV Systems are distributed solar power generation systems installed on the roofs of residential buildings to convert sunlight into electricity for household use. The residential rooftop PV systems industry chain includes upstream suppliers of silicon, solar modules, inverters, batteries, and mounting systems; midstream companies engaged in system integration and EPC services; and downstream installers, distributors, utilities, financing providers, and residential users deploying rooftop solar systems for household electricity generation and energy savings.

United States market for Residential Rooftop PV Systems is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Residential Rooftop PV Systems is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Residential Rooftop PV Systems is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Residential Rooftop PV Systems players cover JinkoSolar, LONGi Green Energy Technology, Trina Solar, JA Solar Technology, Canadian Solar, etc. In terms of

revenue, the global two largest companies occupied for a share nearly % in 2025.

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

This Insight Report provides a comprehensive analysis of the global Residential Rooftop PV Systems 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 Rooftop PV Systems portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Residential Rooftop PV Systems market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Residential Rooftop PV Systems 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 Rooftop PV Systems.

This report presents a comprehensive overview, market shares, and growth opportunities of Residential Rooftop PV Systems market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Grid-Connected Residential PV Systems

Off-Grid Residential PV Systems

Hybrid Residential PV Systems

Segmentation by Component:

Solar PV Modules

Inverters

Battery Energy Storage Systems

Mounting & Racking Systems

Monitoring & Control Systems

Segmentation by Power Capacity:

Below 3 kW

3-10 kW

Above 10 kW

Segmentation by Application:

Homeowners

Residential Property Developers

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.

JinkoSolar

LONGi Green Energy Technology

Trina Solar

JA Solar Technology

Canadian Solar

Hanwha Qcells

First Solar

REC Group

Maxeon Solar Technologies

Tongwei Solar

Astronergy

Risen Energy

Enphase Energy

SolarEdge Technologies

Tesla Energy

Sungrow Power Supply

Huawei Digital Power

Key Questions Addressed in this Report

What is the 10-year outlook for the global Residential Rooftop PV Systems market?

What factors are driving Residential Rooftop PV Systems market growth, globally and by region?

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

How do Residential Rooftop PV Systems market opportunities vary by end market size?

How does Residential Rooftop PV Systems break out by Type, by Application?

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 Rooftop PV Systems Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Residential Rooftop PV Systems by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Residential Rooftop PV Systems by Country/Region, 2021, 2025 & 2032
- 2.2 Residential Rooftop PV Systems Segment by Type
 - 2.2.1 Grid-Connected Residential PV Systems
 - 2.2.2 Off-Grid Residential PV Systems
 - 2.2.3 Hybrid Residential PV Systems
 - 2.2.4 Residential Rooftop PV Systems Sales by Type
 - 2.2.4.1 Global Residential Rooftop PV Systems Sales Market Share by Type (2021-2026)
 - 2.2.4.2 Global Residential Rooftop PV Systems Revenue and Market Share by Type (2021-2026)
 - 2.2.4.3 Global Residential Rooftop PV Systems Sale Price by Type (2021-2026)
- 2.3 Residential Rooftop PV Systems Segment by Component
 - 2.3.1 Solar PV Modules
 - 2.3.2 Inverters
 - 2.3.3 Battery Energy Storage Systems
 - 2.3.4 Mounting & Racking Systems
 - 2.3.5 Monitoring & Control Systems
 - 2.3.6 Residential Rooftop PV Systems Sales by Component
 - 2.3.6.1 Global Residential Rooftop PV Systems Sales Market Share by Component

(2021-2026)

2.3.6.2 Global Residential Rooftop PV Systems Revenue and Market Share by Component (2021-2026)

2.3.6.3 Global Residential Rooftop PV Systems Sale Price by Component (2021-2026)

2.4 Residential Rooftop PV Systems Segment by Power Capacity

2.4.1 Below 3 kW

2.4.2 3-10 kW

2.4.3 Above 10 kW

2.4.4 Residential Rooftop PV Systems Sales by Power Capacity

2.4.4.1 Global Residential Rooftop PV Systems Sales Market Share by Power Capacity (2021-2026)

2.4.4.2 Global Residential Rooftop PV Systems Revenue and Market Share by Power Capacity (2021-2026)

2.4.4.3 Global Residential Rooftop PV Systems Sale Price by Power Capacity (2021-2026)

2.5 Residential Rooftop PV Systems Segment by Application

2.5.1 Homeowners

2.5.2 Residential Property Developers

2.5.3 Residential Rooftop PV Systems Sales by Application

2.5.3.1 Global Residential Rooftop PV Systems Sale Market Share by Application (2021-2026)

2.5.3.2 Global Residential Rooftop PV Systems Revenue and Market Share by Application (2021-2026)

2.5.3.3 Global Residential Rooftop PV Systems Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Residential Rooftop PV Systems Breakdown Data by Company

3.1.1 Global Residential Rooftop PV Systems Annual Sales by Company (2021-2026)

3.1.2 Global Residential Rooftop PV Systems Sales Market Share by Company (2021-2026)

3.2 Global Residential Rooftop PV Systems Annual Revenue by Company (2021-2026)

3.2.1 Global Residential Rooftop PV Systems Revenue by Company (2021-2026)

3.2.2 Global Residential Rooftop PV Systems Revenue Market Share by Company (2021-2026)

3.3 Global Residential Rooftop PV Systems Sale Price by Company

3.4 Key Manufacturers Residential Rooftop PV Systems Producing Area Distribution,

Sales Area, Product Type

3.4.1 Key Manufacturers Residential Rooftop PV Systems Product Location

Distribution

3.4.2 Players Residential Rooftop PV Systems 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 ROOFTOP PV SYSTEMS BY GEOGRAPHIC REGION

4.1 World Historic Residential Rooftop PV Systems Market Size by Geographic Region (2021-2026)

4.1.1 Global Residential Rooftop PV Systems Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Residential Rooftop PV Systems Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Residential Rooftop PV Systems Market Size by Country/Region (2021-2026)

4.2.1 Global Residential Rooftop PV Systems Annual Sales by Country/Region (2021-2026)

4.2.2 Global Residential Rooftop PV Systems Annual Revenue by Country/Region (2021-2026)

4.3 Americas Residential Rooftop PV Systems Sales Growth

4.4 APAC Residential Rooftop PV Systems Sales Growth

4.5 Europe Residential Rooftop PV Systems Sales Growth

4.6 Middle East & Africa Residential Rooftop PV Systems Sales Growth

5 AMERICAS

5.1 Americas Residential Rooftop PV Systems Sales by Country

5.1.1 Americas Residential Rooftop PV Systems Sales by Country (2021-2026)

5.1.2 Americas Residential Rooftop PV Systems Revenue by Country (2021-2026)

5.2 Americas Residential Rooftop PV Systems Sales by Type (2021-2026)

5.3 Americas Residential Rooftop PV Systems Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Residential Rooftop PV Systems Sales by Region

6.1.1 APAC Residential Rooftop PV Systems Sales by Region (2021-2026)

6.1.2 APAC Residential Rooftop PV Systems Revenue by Region (2021-2026)

6.2 APAC Residential Rooftop PV Systems Sales by Type (2021-2026)

6.3 APAC Residential Rooftop PV Systems 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 Rooftop PV Systems by Country

7.1.1 Europe Residential Rooftop PV Systems Sales by Country (2021-2026)

7.1.2 Europe Residential Rooftop PV Systems Revenue by Country (2021-2026)

7.2 Europe Residential Rooftop PV Systems Sales by Type (2021-2026)

7.3 Europe Residential Rooftop PV Systems 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 Rooftop PV Systems by Country

8.1.1 Middle East & Africa Residential Rooftop PV Systems Sales by Country
(2021-2026)

8.1.2 Middle East & Africa Residential Rooftop PV Systems Revenue by Country
(2021-2026)

8.2 Middle East & Africa Residential Rooftop PV Systems Sales by Type (2021-2026)

8.3 Middle East & Africa Residential Rooftop PV Systems 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 Rooftop PV Systems

10.3 Manufacturing Process Analysis of Residential Rooftop PV Systems

10.4 Industry Chain Structure of Residential Rooftop PV Systems

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Residential Rooftop PV Systems Distributors

11.3 Residential Rooftop PV Systems Customer

12 WORLD FORECAST REVIEW FOR RESIDENTIAL ROOFTOP PV SYSTEMS BY GEOGRAPHIC REGION

12.1 Global Residential Rooftop PV Systems Market Size Forecast by Region

12.1.1 Global Residential Rooftop PV Systems Forecast by Region (2027-2032)

12.1.2 Global Residential Rooftop PV Systems 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 Rooftop PV Systems Forecast by Type (2027-2032)

12.7 Global Residential Rooftop PV Systems Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 JinkoSolar

13.1.1 JinkoSolar Company Information

13.1.2 JinkoSolar Residential Rooftop PV Systems Product Portfolios and Specifications

13.1.3 JinkoSolar Residential Rooftop PV Systems Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 JinkoSolar Main Business Overview

13.1.5 JinkoSolar Latest Developments

13.2 LONGi Green Energy Technology

13.2.1 LONGi Green Energy Technology Company Information

13.2.2 LONGi Green Energy Technology Residential Rooftop PV Systems Product Portfolios and Specifications

13.2.3 LONGi Green Energy Technology Residential Rooftop PV Systems Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 LONGi Green Energy Technology Main Business Overview

13.2.5 LONGi Green Energy Technology Latest Developments

13.3 Trina Solar

13.3.1 Trina Solar Company Information

13.3.2 Trina Solar Residential Rooftop PV Systems Product Portfolios and Specifications

13.3.3 Trina Solar Residential Rooftop PV Systems Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Trina Solar Main Business Overview

13.3.5 Trina Solar Latest Developments

13.4 JA Solar Technology

13.4.1 JA Solar Technology Company Information

13.4.2 JA Solar Technology Residential Rooftop PV Systems Product Portfolios and Specifications

13.4.3 JA Solar Technology Residential Rooftop PV Systems Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 JA Solar Technology Main Business Overview

13.4.5 JA Solar Technology Latest Developments

13.5 Canadian Solar

- 13.5.1 Canadian Solar Company Information
- 13.5.2 Canadian Solar Residential Rooftop PV Systems Product Portfolios and Specifications
- 13.5.3 Canadian Solar Residential Rooftop PV Systems Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.5.4 Canadian Solar Main Business Overview
- 13.5.5 Canadian Solar Latest Developments
- 13.6 Hanwha Qcells
 - 13.6.1 Hanwha Qcells Company Information
 - 13.6.2 Hanwha Qcells Residential Rooftop PV Systems Product Portfolios and Specifications
 - 13.6.3 Hanwha Qcells Residential Rooftop PV Systems Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 Hanwha Qcells Main Business Overview
 - 13.6.5 Hanwha Qcells Latest Developments
- 13.7 First Solar
 - 13.7.1 First Solar Company Information
 - 13.7.2 First Solar Residential Rooftop PV Systems Product Portfolios and Specifications
 - 13.7.3 First Solar Residential Rooftop PV Systems Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 First Solar Main Business Overview
 - 13.7.5 First Solar Latest Developments
- 13.8 REC Group
 - 13.8.1 REC Group Company Information
 - 13.8.2 REC Group Residential Rooftop PV Systems Product Portfolios and Specifications
 - 13.8.3 REC Group Residential Rooftop PV Systems Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.8.4 REC Group Main Business Overview
 - 13.8.5 REC Group Latest Developments
- 13.9 Moxon Solar Technologies
 - 13.9.1 Moxon Solar Technologies Company Information
 - 13.9.2 Moxon Solar Technologies Residential Rooftop PV Systems Product Portfolios and Specifications
 - 13.9.3 Moxon Solar Technologies Residential Rooftop PV Systems Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.9.4 Moxon Solar Technologies Main Business Overview
 - 13.9.5 Moxon Solar Technologies Latest Developments

13.10 Tongwei Solar

13.10.1 Tongwei Solar Company Information

13.10.2 Tongwei Solar Residential Rooftop PV Systems Product Portfolios and Specifications

13.10.3 Tongwei Solar Residential Rooftop PV Systems Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Tongwei Solar Main Business Overview

13.10.5 Tongwei Solar Latest Developments

13.11 Astronergy

13.11.1 Astronergy Company Information

13.11.2 Astronergy Residential Rooftop PV Systems Product Portfolios and Specifications

13.11.3 Astronergy Residential Rooftop PV Systems Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Astronergy Main Business Overview

13.11.5 Astronergy Latest Developments

13.12 Risen Energy

13.12.1 Risen Energy Company Information

13.12.2 Risen Energy Residential Rooftop PV Systems Product Portfolios and Specifications

13.12.3 Risen Energy Residential Rooftop PV Systems Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Risen Energy Main Business Overview

13.12.5 Risen Energy Latest Developments

13.13 Enphase Energy

13.13.1 Enphase Energy Company Information

13.13.2 Enphase Energy Residential Rooftop PV Systems Product Portfolios and Specifications

13.13.3 Enphase Energy Residential Rooftop PV Systems Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 Enphase Energy Main Business Overview

13.13.5 Enphase Energy Latest Developments

13.14 SolarEdge Technologies

13.14.1 SolarEdge Technologies Company Information

13.14.2 SolarEdge Technologies Residential Rooftop PV Systems Product Portfolios and Specifications

13.14.3 SolarEdge Technologies Residential Rooftop PV Systems Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 SolarEdge Technologies Main Business Overview

- 13.14.5 SolarEdge Technologies Latest Developments
- 13.15 Tesla Energy
 - 13.15.1 Tesla Energy Company Information
 - 13.15.2 Tesla Energy Residential Rooftop PV Systems Product Portfolios and Specifications
 - 13.15.3 Tesla Energy Residential Rooftop PV Systems Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.15.4 Tesla Energy Main Business Overview
 - 13.15.5 Tesla Energy Latest Developments
- 13.16 Sungrow Power Supply
 - 13.16.1 Sungrow Power Supply Company Information
 - 13.16.2 Sungrow Power Supply Residential Rooftop PV Systems Product Portfolios and Specifications
 - 13.16.3 Sungrow Power Supply Residential Rooftop PV Systems Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.16.4 Sungrow Power Supply Main Business Overview
 - 13.16.5 Sungrow Power Supply Latest Developments
- 13.17 Huawei Digital Power
 - 13.17.1 Huawei Digital Power Company Information
 - 13.17.2 Huawei Digital Power Residential Rooftop PV Systems Product Portfolios and Specifications
 - 13.17.3 Huawei Digital Power Residential Rooftop PV Systems Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.17.4 Huawei Digital Power Main Business Overview
 - 13.17.5 Huawei Digital Power Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Residential Rooftop PV Systems Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Residential Rooftop PV Systems Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Grid-Connected Residential PV Systems

Table 4. Major Players of Off-Grid Residential PV Systems

Table 5. Major Players of Hybrid Residential PV Systems

Table 6. Global Residential Rooftop PV Systems Sales by Type (2021-2026) & (Units)

Table 7. Global Residential Rooftop PV Systems Sales Market Share by Type (2021-2026)

Table 8. Global Residential Rooftop PV Systems Revenue by Type (2021-2026) & (\$ million)

Table 9. Global Residential Rooftop PV Systems Revenue Market Share by Type (2021-2026)

Table 10. Global Residential Rooftop PV Systems Sale Price by Type (2021-2026) & (US\$/Unit)

Table 11. Major Players of Solar PV Modules

Table 12. Major Players of Inverters

Table 13. Major Players of Battery Energy Storage Systems

Table 14. Major Players of Mounting & Racking Systems

Table 15. Major Players of Monitoring & Control Systems

Table 16. Global Residential Rooftop PV Systems Sales by Component (2021-2026) & (Units)

Table 17. Global Residential Rooftop PV Systems Sales Market Share by Component (2021-2026)

Table 18. Global Residential Rooftop PV Systems Revenue by Component (2021-2026) & (\$ million)

Table 19. Global Residential Rooftop PV Systems Revenue Market Share by Component (2021-2026)

Table 20. Global Residential Rooftop PV Systems Sale Price by Component (2021-2026) & (US\$/Unit)

Table 21. Major Players of Below 3 kW

Table 22. Major Players of 3-10 kW

Table 23. Major Players of Above 10 kW

Table 24. Global Residential Rooftop PV Systems Sales by Power Capacity

(2021-2026) & (Units)

Table 25. Global Residential Rooftop PV Systems Sales Market Share by Power Capacity (2021-2026)

Table 26. Global Residential Rooftop PV Systems Revenue by Power Capacity (2021-2026) & (\$ million)

Table 27. Global Residential Rooftop PV Systems Revenue Market Share by Power Capacity (2021-2026)

Table 28. Global Residential Rooftop PV Systems Sale Price by Power Capacity (2021-2026) & (US\$/Unit)

Table 29. Global Residential Rooftop PV Systems Sale by Application (2021-2026) & (Units)

Table 30. Global Residential Rooftop PV Systems Sale Market Share by Application (2021-2026)

Table 31. Global Residential Rooftop PV Systems Revenue by Application (2021-2026) & (\$ million)

Table 32. Global Residential Rooftop PV Systems Revenue Market Share by Application (2021-2026)

Table 33. Global Residential Rooftop PV Systems Sale Price by Application (2021-2026) & (US\$/Unit)

Table 34. Global Residential Rooftop PV Systems Sales by Company (2021-2026) & (Units)

Table 35. Global Residential Rooftop PV Systems Sales Market Share by Company (2021-2026)

Table 36. Global Residential Rooftop PV Systems Revenue by Company (2021-2026) & (\$ millions)

Table 37. Global Residential Rooftop PV Systems Revenue Market Share by Company (2021-2026)

Table 38. Global Residential Rooftop PV Systems Sale Price by Company (2021-2026) & (US\$/Unit)

Table 39. Key Manufacturers Residential Rooftop PV Systems Producing Area Distribution and Sales Area

Table 40. Players Residential Rooftop PV Systems Products Offered

Table 41. Residential Rooftop PV Systems Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 42. New Products and Potential Entrants

Table 43. Market M&A Activity & Strategy

Table 44. Global Residential Rooftop PV Systems Sales by Geographic Region (2021-2026) & (Units)

Table 45. Global Residential Rooftop PV Systems Sales Market Share Geographic

Region (2021-2026)

Table 46. Global Residential Rooftop PV Systems Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 47. Global Residential Rooftop PV Systems Revenue Market Share by Geographic Region (2021-2026)

Table 48. Global Residential Rooftop PV Systems Sales by Country/Region (2021-2026) & (Units)

Table 49. Global Residential Rooftop PV Systems Sales Market Share by Country/Region (2021-2026)

Table 50. Global Residential Rooftop PV Systems Revenue by Country/Region (2021-2026) & (\$ millions)

Table 51. Global Residential Rooftop PV Systems Revenue Market Share by Country/Region (2021-2026)

Table 52. Americas Residential Rooftop PV Systems Sales by Country (2021-2026) & (Units)

Table 53. Americas Residential Rooftop PV Systems Sales Market Share by Country (2021-2026)

Table 54. Americas Residential Rooftop PV Systems Revenue by Country (2021-2026) & (\$ millions)

Table 55. Americas Residential Rooftop PV Systems Sales by Type (2021-2026) & (Units)

Table 56. Americas Residential Rooftop PV Systems Sales by Application (2021-2026) & (Units)

Table 57. APAC Residential Rooftop PV Systems Sales by Region (2021-2026) & (Units)

Table 58. APAC Residential Rooftop PV Systems Sales Market Share by Region (2021-2026)

Table 59. APAC Residential Rooftop PV Systems Revenue by Region (2021-2026) & (\$ millions)

Table 60. APAC Residential Rooftop PV Systems Sales by Type (2021-2026) & (Units)

Table 61. APAC Residential Rooftop PV Systems Sales by Application (2021-2026) & (Units)

Table 62. Europe Residential Rooftop PV Systems Sales by Country (2021-2026) & (Units)

Table 63. Europe Residential Rooftop PV Systems Revenue by Country (2021-2026) & (\$ millions)

Table 64. Europe Residential Rooftop PV Systems Sales by Type (2021-2026) & (Units)

Table 65. Europe Residential Rooftop PV Systems Sales by Application (2021-2026) & (Units)

Table 66. Middle East & Africa Residential Rooftop PV Systems Sales by Country (2021-2026) & (Units)

Table 67. Middle East & Africa Residential Rooftop PV Systems Revenue Market Share by Country (2021-2026)

Table 68. Middle East & Africa Residential Rooftop PV Systems Sales by Type (2021-2026) & (Units)

Table 69. Middle East & Africa Residential Rooftop PV Systems Sales by Application (2021-2026) & (Units)

Table 70. Key Market Drivers & Growth Opportunities of Residential Rooftop PV Systems

Table 71. Key Market Challenges & Risks of Residential Rooftop PV Systems

Table 72. Key Industry Trends of Residential Rooftop PV Systems

Table 73. Residential Rooftop PV Systems Raw Material

Table 74. Key Suppliers of Raw Materials

Table 75. Residential Rooftop PV Systems Distributors List

Table 76. Residential Rooftop PV Systems Customer List

Table 77. Global Residential Rooftop PV Systems Sales Forecast by Region (2027-2032) & (Units)

Table 78. Global Residential Rooftop PV Systems Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 79. Americas Residential Rooftop PV Systems Sales Forecast by Country (2027-2032) & (Units)

Table 80. Americas Residential Rooftop PV Systems Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 81. APAC Residential Rooftop PV Systems Sales Forecast by Region (2027-2032) & (Units)

Table 82. APAC Residential Rooftop PV Systems Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 83. Europe Residential Rooftop PV Systems Sales Forecast by Country (2027-2032) & (Units)

Table 84. Europe Residential Rooftop PV Systems Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 85. Middle East & Africa Residential Rooftop PV Systems Sales Forecast by Country (2027-2032) & (Units)

Table 86. Middle East & Africa Residential Rooftop PV Systems Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 87. Global Residential Rooftop PV Systems Sales Forecast by Type (2027-2032) & (Units)

Table 88. Global Residential Rooftop PV Systems Revenue Forecast by Type

(2027-2032) & (\$ millions)

Table 89. Global Residential Rooftop PV Systems Sales Forecast by Application

(2027-2032) & (Units)

Table 90. Global Residential Rooftop PV Systems Revenue Forecast by Application

(2027-2032) & (\$ millions)

Table 91. JinkoSolar Basic Information, Residential Rooftop PV Systems Manufacturing Base, Sales Area and Its Competitors

Table 92. JinkoSolar Residential Rooftop PV Systems Product Portfolios and Specifications

Table 93. JinkoSolar Residential Rooftop PV Systems Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 94. JinkoSolar Main Business

Table 95. JinkoSolar Latest Developments

Table 96. LONGi Green Energy Technology Basic Information, Residential Rooftop PV Systems Manufacturing Base, Sales Area and Its Competitors

Table 97. LONGi Green Energy Technology Residential Rooftop PV Systems Product Portfolios and Specifications

Table 98. LONGi Green Energy Technology Residential Rooftop PV Systems Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 99. LONGi Green Energy Technology Main Business

Table 100. LONGi Green Energy Technology Latest Developments

Table 101. Trina Solar Basic Information, Residential Rooftop PV Systems Manufacturing Base, Sales Area and Its Competitors

Table 102. Trina Solar Residential Rooftop PV Systems Product Portfolios and Specifications

Table 103. Trina Solar Residential Rooftop PV Systems Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 104. Trina Solar Main Business

Table 105. Trina Solar Latest Developments

Table 106. JA Solar Technology Basic Information, Residential Rooftop PV Systems Manufacturing Base, Sales Area and Its Competitors

Table 107. JA Solar Technology Residential Rooftop PV Systems Product Portfolios and Specifications

Table 108. JA Solar Technology Residential Rooftop PV Systems Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 109. JA Solar Technology Main Business

Table 110. JA Solar Technology Latest Developments

Table 111. Canadian Solar Basic Information, Residential Rooftop PV Systems Manufacturing Base, Sales Area and Its Competitors

Table 112. Canadian Solar Residential Rooftop PV Systems Product Portfolios and Specifications

Table 113. Canadian Solar Residential Rooftop PV Systems Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 114. Canadian Solar Main Business

Table 115. Canadian Solar Latest Developments

Table 116. Hanwha Qcells Basic Information, Residential Rooftop PV Systems Manufacturing Base, Sales Area and Its Competitors

Table 117. Hanwha Qcells Residential Rooftop PV Systems Product Portfolios and Specifications

Table 118. Hanwha Qcells Residential Rooftop PV Systems Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 119. Hanwha Qcells Main Business

Table 120. Hanwha Qcells Latest Developments

Table 121. First Solar Basic Information, Residential Rooftop PV Systems Manufacturing Base, Sales Area and Its Competitors

Table 122. First Solar Residential Rooftop PV Systems Product Portfolios and Specifications

Table 123. First Solar Residential Rooftop PV Systems Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 124. First Solar Main Business

Table 125. First Solar Latest Developments

Table 126. REC Group Basic Information, Residential Rooftop PV Systems Manufacturing Base, Sales Area and Its Competitors

Table 127. REC Group Residential Rooftop PV Systems Product Portfolios and Specifications

Table 128. REC Group Residential Rooftop PV Systems Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 129. REC Group Main Business

Table 130. REC Group Latest Developments

Table 131. Maxeon Solar Technologies Basic Information, Residential Rooftop PV Systems Manufacturing Base, Sales Area and Its Competitors

Table 132. Maxeon Solar Technologies Residential Rooftop PV Systems Product Portfolios and Specifications

Table 133. Maxeon Solar Technologies Residential Rooftop PV Systems Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 134. Maxeon Solar Technologies Main Business

Table 135. Maxeon Solar Technologies Latest Developments

Table 136. Tongwei Solar Basic Information, Residential Rooftop PV Systems

Manufacturing Base, Sales Area and Its Competitors

Table 137. Tongwei Solar Residential Rooftop PV Systems Product Portfolios and Specifications

Table 138. Tongwei Solar Residential Rooftop PV Systems Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 139. Tongwei Solar Main Business

Table 140. Tongwei Solar Latest Developments

Table 141. Astronergy Basic Information, Residential Rooftop PV Systems Manufacturing Base, Sales Area and Its Competitors

Table 142. Astronergy Residential Rooftop PV Systems Product Portfolios and Specifications

Table 143. Astronergy Residential Rooftop PV Systems Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 144. Astronergy Main Business

Table 145. Astronergy Latest Developments

Table 146. Risen Energy Basic Information, Residential Rooftop PV Systems Manufacturing Base, Sales Area and Its Competitors

Table 147. Risen Energy Residential Rooftop PV Systems Product Portfolios and Specifications

Table 148. Risen Energy Residential Rooftop PV Systems Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 149. Risen Energy Main Business

Table 150. Risen Energy Latest Developments

Table 151. Enphase Energy Basic Information, Residential Rooftop PV Systems Manufacturing Base, Sales Area and Its Competitors

Table 152. Enphase Energy Residential Rooftop PV Systems Product Portfolios and Specifications

Table 153. Enphase Energy Residential Rooftop PV Systems Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 154. Enphase Energy Main Business

Table 155. Enphase Energy Latest Developments

Table 156. SolarEdge Technologies Basic Information, Residential Rooftop PV Systems Manufacturing Base, Sales Area and Its Competitors

Table 157. SolarEdge Technologies Residential Rooftop PV Systems Product Portfolios and Specifications

Table 158. SolarEdge Technologies Residential Rooftop PV Systems Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 159. SolarEdge Technologies Main Business

Table 160. SolarEdge Technologies Latest Developments

Table 161. Tesla Energy Basic Information, Residential Rooftop PV Systems Manufacturing Base, Sales Area and Its Competitors

Table 162. Tesla Energy Residential Rooftop PV Systems Product Portfolios and Specifications

Table 163. Tesla Energy Residential Rooftop PV Systems Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 164. Tesla Energy Main Business

Table 165. Tesla Energy Latest Developments

Table 166. Sungrow Power Supply Basic Information, Residential Rooftop PV Systems Manufacturing Base, Sales Area and Its Competitors

Table 167. Sungrow Power Supply Residential Rooftop PV Systems Product Portfolios and Specifications

Table 168. Sungrow Power Supply Residential Rooftop PV Systems Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 169. Sungrow Power Supply Main Business

Table 170. Sungrow Power Supply Latest Developments

Table 171. Huawei Digital Power Basic Information, Residential Rooftop PV Systems Manufacturing Base, Sales Area and Its Competitors

Table 172. Huawei Digital Power Residential Rooftop PV Systems Product Portfolios and Specifications

Table 173. Huawei Digital Power Residential Rooftop PV Systems Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 174. Huawei Digital Power Main Business

Table 175. Huawei Digital Power Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Residential Rooftop PV Systems
- Figure 2. Residential Rooftop PV Systems Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Residential Rooftop PV Systems Sales Growth Rate 2021-2032 (Units)
- Figure 7. Global Residential Rooftop PV Systems Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Residential Rooftop PV Systems Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Residential Rooftop PV Systems Sales Market Share by Country/Region (2025)
- Figure 10. Residential Rooftop PV Systems Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Grid-Connected Residential PV Systems
- Figure 12. Product Picture of Off-Grid Residential PV Systems
- Figure 13. Product Picture of Hybrid Residential PV Systems
- Figure 14. Global Residential Rooftop PV Systems Sales Market Share by Type in 2026
- Figure 15. Global Residential Rooftop PV Systems Revenue Market Share by Type (2021-2026)
- Figure 16. Product Picture of Solar PV Modules
- Figure 17. Product Picture of Inverters
- Figure 18. Product Picture of Battery Energy Storage Systems
- Figure 19. Product Picture of Mounting & Racking Systems
- Figure 20. Product Picture of Monitoring & Control Systems
- Figure 21. Global Residential Rooftop PV Systems Sales Market Share by Component in 2026
- Figure 22. Global Residential Rooftop PV Systems Revenue Market Share by Component (2021-2026)
- Figure 23. Product Picture of Below 3 kW
- Figure 24. Product Picture of 3-10 kW
- Figure 25. Product Picture of Above 10 kW
- Figure 26. Global Residential Rooftop PV Systems Sales Market Share by Power Capacity in 2026
- Figure 27. Global Residential Rooftop PV Systems Revenue Market Share by Power

Capacity (2021-2026)

Figure 28. Residential Rooftop PV Systems Consumed in Homeowners

Figure 29. Global Residential Rooftop PV Systems Market: Homeowners (2021-2026) & (Units)

Figure 30. Residential Rooftop PV Systems Consumed in Residential Property Developers

Figure 31. Global Residential Rooftop PV Systems Market: Residential Property Developers (2021-2026) & (Units)

Figure 32. Global Residential Rooftop PV Systems Sale Market Share by Application (2025)

Figure 33. Global Residential Rooftop PV Systems Revenue Market Share by Application in 2025

Figure 34. Residential Rooftop PV Systems Sales by Company in 2025 (Units)

Figure 35. Global Residential Rooftop PV Systems Sales Market Share by Company in 2025

Figure 36. Residential Rooftop PV Systems Revenue by Company in 2025 (\$ millions)

Figure 37. Global Residential Rooftop PV Systems Revenue Market Share by Company in 2025

Figure 38. Global Residential Rooftop PV Systems Sales Market Share by Geographic Region (2021-2026)

Figure 39. Global Residential Rooftop PV Systems Revenue Market Share by Geographic Region in 2025

Figure 40. Americas Residential Rooftop PV Systems Sales 2021-2026 (Units)

Figure 41. Americas Residential Rooftop PV Systems Revenue 2021-2026 (\$ millions)

Figure 42. APAC Residential Rooftop PV Systems Sales 2021-2026 (Units)

Figure 43. APAC Residential Rooftop PV Systems Revenue 2021-2026 (\$ millions)

Figure 44. Europe Residential Rooftop PV Systems Sales 2021-2026 (Units)

Figure 45. Europe Residential Rooftop PV Systems Revenue 2021-2026 (\$ millions)

Figure 46. Middle East & Africa Residential Rooftop PV Systems Sales 2021-2026 (Units)

Figure 47. Middle East & Africa Residential Rooftop PV Systems Revenue 2021-2026 (\$ millions)

Figure 48. Americas Residential Rooftop PV Systems Sales Market Share by Country in 2025

Figure 49. Americas Residential Rooftop PV Systems Revenue Market Share by Country (2021-2026)

Figure 50. Americas Residential Rooftop PV Systems Sales Market Share by Type (2021-2026)

Figure 51. Americas Residential Rooftop PV Systems Sales Market Share by

Application (2021-2026)

Figure 52. United States Residential Rooftop PV Systems Revenue Growth 2021-2026 (\$ millions)

Figure 53. Canada Residential Rooftop PV Systems Revenue Growth 2021-2026 (\$ millions)

Figure 54. Mexico Residential Rooftop PV Systems Revenue Growth 2021-2026 (\$ millions)

Figure 55. Brazil Residential Rooftop PV Systems Revenue Growth 2021-2026 (\$ millions)

Figure 56. APAC Residential Rooftop PV Systems Sales Market Share by Region in 2025

Figure 57. APAC Residential Rooftop PV Systems Revenue Market Share by Region (2021-2026)

Figure 58. APAC Residential Rooftop PV Systems Sales Market Share by Type (2021-2026)

Figure 59. APAC Residential Rooftop PV Systems Sales Market Share by Application (2021-2026)

Figure 60. China Residential Rooftop PV Systems Revenue Growth 2021-2026 (\$ millions)

Figure 61. Japan Residential Rooftop PV Systems Revenue Growth 2021-2026 (\$ millions)

Figure 62. South Korea Residential Rooftop PV Systems Revenue Growth 2021-2026 (\$ millions)

Figure 63. Southeast Asia Residential Rooftop PV Systems Revenue Growth 2021-2026 (\$ millions)

Figure 64. India Residential Rooftop PV Systems Revenue Growth 2021-2026 (\$ millions)

Figure 65. Australia Residential Rooftop PV Systems Revenue Growth 2021-2026 (\$ millions)

Figure 66. China Taiwan Residential Rooftop PV Systems Revenue Growth 2021-2026 (\$ millions)

Figure 67. Europe Residential Rooftop PV Systems Sales Market Share by Country in 2025

Figure 68. Europe Residential Rooftop PV Systems Revenue Market Share by Country (2021-2026)

Figure 69. Europe Residential Rooftop PV Systems Sales Market Share by Type (2021-2026)

Figure 70. Europe Residential Rooftop PV Systems Sales Market Share by Application (2021-2026)

Figure 71. Germany Residential Rooftop PV Systems Revenue Growth 2021-2026 (\$ millions)

Figure 72. France Residential Rooftop PV Systems Revenue Growth 2021-2026 (\$ millions)

Figure 73. UK Residential Rooftop PV Systems Revenue Growth 2021-2026 (\$ millions)

Figure 74. Italy Residential Rooftop PV Systems Revenue Growth 2021-2026 (\$ millions)

Figure 75. Russia Residential Rooftop PV Systems Revenue Growth 2021-2026 (\$ millions)

Figure 76. Middle East & Africa Residential Rooftop PV Systems Sales Market Share by Country (2021-2026)

Figure 77. Middle East & Africa Residential Rooftop PV Systems Sales Market Share by Type (2021-2026)

Figure 78. Middle East & Africa Residential Rooftop PV Systems Sales Market Share by Application (2021-2026)

Figure 79. Egypt Residential Rooftop PV Systems Revenue Growth 2021-2026 (\$ millions)

Figure 80. South Africa Residential Rooftop PV Systems Revenue Growth 2021-2026 (\$ millions)

Figure 81. Israel Residential Rooftop PV Systems Revenue Growth 2021-2026 (\$ millions)

Figure 82. Turkey Residential Rooftop PV Systems Revenue Growth 2021-2026 (\$ millions)

Figure 83. GCC Countries Residential Rooftop PV Systems Revenue Growth 2021-2026 (\$ millions)

Figure 84. Manufacturing Cost Structure Analysis of Residential Rooftop PV Systems in 2026

Figure 85. Manufacturing Process Analysis of Residential Rooftop PV Systems

Figure 86. Industry Chain Structure of Residential Rooftop PV Systems

Figure 87. Channels of Distribution

Figure 88. Global Residential Rooftop PV Systems Sales Market Forecast by Region (2027-2032)

Figure 89. Global Residential Rooftop PV Systems Revenue Market Share Forecast by Region (2027-2032)

Figure 90. Global Residential Rooftop PV Systems Sales Market Share Forecast by Type (2027-2032)

Figure 91. Global Residential Rooftop PV Systems Revenue Market Share Forecast by Type (2027-2032)

Figure 92. Global Residential Rooftop PV Systems Sales Market Share Forecast by

Application (2027-2032)

Figure 93. Global Residential Rooftop PV Systems Revenue Market Share Forecast by
Application (2027-2032)

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