

Global Residential Solar Inverter Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Residential Solar Inverter market size is expected to reach \$ 3296 million by 2032, rising at a market growth of 7.8% CAGR during the forecast period (2026-2032).

Residential Solar Inverter is a household photovoltaic power conversion device designed for rooftop solar systems, converting direct current generated by solar panels into usable alternating current for home loads while supporting grid connection, safety protection, monitoring, and energy management. Compared with general solar inverters, its advantages lie in stronger residential system adaptability, easier installation, better household load matching, safer grid interaction, faster response, and more flexible coordination with home energy storage when required. In 2025, production was approximately 2.1 million units and the average price was USD 900 per unit. The industry's capacity utilization rate in 2025 was about 55% and the average gross margin was around 30%. Upstream, the key inputs include power semiconductors such as IGBT and SiC MOSFET devices as well as magnetic components, with representative suppliers including Infineon Technologies, Wolfspeed, and TDK providing core power switching and electromagnetic conversion components. The midstream segment focuses on residential inverter topology design, DC-AC power conversion, grid-connection control, battery compatibility, thermal management, safety protection, software algorithms, certification testing, and home system adaptation, which determine conversion efficiency, operating stability, installation convenience, and user-side energy management performance. Downstream, Residential Solar Inverter is mainly applied in off-grid and grid-connected systems, where off-grid systems support independent household power supply, remote residential electricity use, and backup power scenarios, while grid-connected systems enable rooftop solar power conversion, self-consumption improvement, grid interaction, and household electricity cost management.

Residential Solar Inverter is increasingly defined by household energy management rather than basic power conversion. In grid-connected systems, its value lies in converting rooftop solar power, improving self-consumption, supporting grid interaction, and helping households manage electricity costs under changing tariff structures. In off-grid systems, it becomes a reliability device for remote homes, backup power, and independent electricity use. As residential users demand safer operation, easier installation, higher conversion efficiency, and better compatibility with storage batteries, competition will move toward software control, grid-code compliance, thermal design, and system integration. Suppliers with stronger residential scenario adaptation can gain pricing resilience through differentiated energy management functions.

This report studies the global Residential Solar Inverter production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Residential Solar Inverter and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Residential Solar Inverter that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Residential Solar Inverter total production and demand, 2021-2032, (K Units)

Global Residential Solar Inverter total production value, 2021-2032, (USD Million)

Global Residential Solar Inverter production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Residential Solar Inverter consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Residential Solar Inverter domestic production, consumption, key domestic manufacturers and share

Global Residential Solar Inverter production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Residential Solar Inverter production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Residential Solar Inverter production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Residential Solar Inverter market based on

the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Huawei (China), Sungrow Power Supply (China), Ginlong Technologies (China), Growatt New Energy (China), Sineng Electric (China), GoodWe Technologies (China), SMA Solar Technology (Germany), Fronius International (Austria), SolarEdge Technologies (Israel), Enphase Energy (USA), etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Residential Solar Inverter market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Residential Solar Inverter Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Residential Solar Inverter Market, Segmentation by Type:

String Inverters

Hybrid Inverters

Off-Grid Inverters

Others

Global Residential Solar Inverter Market, Segmentation by Output Phase:

Single-Phase Solar Inverter

Three-Phase Solar Inverter

Global Residential Solar Inverter Market, Segmentation by MPPT Channels:

1 MPPT Channel

2 MPPT Channels

3 MPPT Channels

4 MPPT Channels

Global Residential Solar Inverter Market, Segmentation by Application:

Off-Grid System

Grid-Tied System

Companies Profiled:

Huawei (China)

Sungrow Power Supply (China)

Ginlong Technologies (China)

Growatt New Energy (China)

Sineng Electric (China)

GoodWe Technologies (China)

SMA Solar Technology (Germany)

Fronius International (Austria)

SolarEdge Technologies (Israel)

Enphase Energy (USA)

TMEIC (Japan)

Chint Power Systems (China)

Hoymiles Power Electronics (China)

Key Questions Answered:

1. How big is the global Residential Solar Inverter market?
2. What is the demand of the global Residential Solar Inverter market?
3. What is the year over year growth of the global Residential Solar Inverter market?
4. What is the production and production value of the global Residential Solar Inverter market?
5. Who are the key producers in the global Residential Solar Inverter market?
6. What are the growth factors driving the market demand?

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