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

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Abstracts

The global Residential Grid-Tie Inverter market size is expected to reach $ 2599 million by 2032, rising at a market growth of 7.9% CAGR during the forecast period (2026-2032).

Residential Grid-Tie Inverter is a household photovoltaic power conversion device designed for grid-connected rooftop solar systems, converting electricity generated by solar panels into usable alternating current while enabling safe grid synchronization, power monitoring, protection control, and household energy management. Compared with general residential solar inverters, its advantages lie in stronger grid-connection adaptability, easier installation, better household load matching, safer grid interaction, higher conversion stability, and improved support for self-consumption and electricity cost management. In 2025, production was approximately 1.25 million units and the average price was USD 1200 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 grid-tie inverter topology design, DC-AC power conversion, grid synchronization control, protection functions, thermal management, safety design, software algorithms, certification testing, and home system adaptation, which determine conversion efficiency, operating stability, grid compliance, installation convenience, and user-side energy management performance. Downstream, Residential Grid-Tie Inverter is mainly applied in grid-connected residential solar systems, including rooftop photovoltaic systems and balcony solar-storage systems, supporting solar power conversion, household self-consumption improvement, grid interaction, operating monitoring, and residential electricity cost

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management.

Residential Grid-Tie Inverter is becoming a key device for households to convert rooftop solar generation into controllable grid-connected electricity use. Its application value is concentrated in self-consumption improvement, power monitoring, safe grid interaction, and residential electricity cost management. As more homes adopt rooftop photovoltaic systems, users will pay closer attention to conversion efficiency, grid-code compliance, installation convenience, system safety, and digital monitoring functions. Competition will move beyond basic hardware pricing toward software control, reliability, certification capability, and compatibility with future home energy platforms. Suppliers with strong residential channel coverage and localized service capability can build more stable product margins through differentiated grid-connected energy management.

This report studies the global Residential Grid-Tie Inverter production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Residential Grid-Tie 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 Grid-Tie Inverter that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Residential Grid-Tie Inverter total production and demand, 2021-2032, (K Units)
Global Residential Grid-Tie Inverter total production value, 2021-2032, (USD Million)
Global Residential Grid-Tie Inverter production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global Residential Grid-Tie Inverter consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: Residential Grid-Tie Inverter domestic production, consumption, key domestic manufacturers and share
Global Residential Grid-Tie Inverter production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Residential Grid-Tie Inverter production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Residential Grid-Tie Inverter production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

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This report profiles key players in the global Residential Grid-Tie 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 Grid-Tie 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 Grid-Tie Inverter Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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Global Residential Grid-Tie Inverter Market, Segmentation by Type:

Power

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