

Global 320kW Inverter Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 320kW Inverter market size is expected to reach \$ 158 million by 2032, rising at a market growth of 3.5% CAGR during the forecast period (2026-2032).

In 2025, the production volume of 320 kW inverters is projected to reach 18,694 units, with an average selling price of \$6,440 per unit. The global annual production capacity for 320 kW inverters stands at approximately 30,000 units, with a gross margin of approximately 30.2%. A 320 kW inverter is a power electronic device with a rated output power of 320 kilowatts (kW); it converts direct current (DC) into alternating current (AC) while providing stable voltage, frequency, and phase. These inverters are utilized in various applications, including driving electric motors and generator sets, as well as in grid-tied photovoltaic (PV) systems and energy storage systems. The upstream supply chain for 320 kW inverters comprises raw materials such as semiconductors, electronic components, silicon wafers, and discrete device materials. The midstream segment consists of the manufacturers of these 320 kW inverters, while the downstream market primarily encompasses sectors such as PV power plants, energy storage, and industrial applications.

Inverters in the 320 kW power class primarily target large-scale commercial and industrial (C&I) rooftop distributed power stations, as well as small-to-medium-sized ground-mounted power plants; this segment represents one of the most fiercely contested battlegrounds between centralized and string inverter solutions. Currently, the technology for products in this power range is highly mature; mainstream manufacturers widely employ three-level topological structures combined with hybrid SiC (Silicon Carbide)/IGBT device schemes, thereby boosting maximum efficiency to over 99%. In terms of the competitive landscape, Chinese enterprises such as Sungrow, Ginlong Technologies, and Growatt have established a dominant position in the global market,

leveraging their cost advantages derived from economies of scale and their rapid product iteration capabilities. These companies are also continuing to expand into emerging markets across Southeast Asia, the Middle East, and Latin America. Regarding product trends, 320 kW string inverters are gradually displacing centralized solutions within the same power class, largely due to their multi-MPPT designs, which deliver superior power generation yields in environments with complex terrain. Furthermore, enhanced grid adaptability (including high/low voltage ride-through capabilities and reactive power compensation) and intelligent O&M functionalities have become standard features for products in this power segment; consequently, market competition has evolved from a mere contest of efficiency metrics into a comprehensive rivalry based on the overall strength of system-level solutions.

This report studies the global 320kW Inverter production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 320kW 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 320kW Inverter that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 320kW Inverter total production and demand, 2021-2032, (Units)

Global 320kW Inverter total production value, 2021-2032, (USD Million)

Global 320kW Inverter production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global 320kW Inverter consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: 320kW Inverter domestic production, consumption, key domestic manufacturers and share

Global 320kW Inverter production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global 320kW Inverter production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global 320kW Inverter production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global 320kW 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 Billion Electric, Growatt, Slenergy, SolaX Power, SUNGROW, Ginlong, GoodWe, CSI SOLAR, CHNT POWER, PrimeVOLT, 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 320kW Inverter market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 320kW Inverter Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 320kW Inverter Market, Segmentation by Type:

Centralized

Serialized

Global 320kW Inverter Market, Segmentation by Energy Management Function:

Grid-Connected

Hybrid

Global 320kW Inverter Market, Segmentation by Output Waveform:

Square Wave Inverter

Sine Wave Inverter

Global 320kW Inverter Market, Segmentation by MPPT Configuration:

12 Channels

14 Channels

16 Channels

Global 320kW Inverter Market, Segmentation by Application:

Photovoltaic Power Plants

Energy Storage

Industrial

Others

Companies Profiled:

Billion Electric

Growatt

Slenergy

SolaX Power

SUNGROW

Ginlong

GoodWe

CSI SOLAR

CHNT POWER

PrimeVOLT

KSTAR

HYXiPOWER

SINENG

HOPEWIND

ENF Solar

Key Questions Answered:

1. How big is the global 320kW Inverter market?
2. What is the demand of the global 320kW Inverter market?
3. What is the year over year growth of the global 320kW Inverter market?
4. What is the production and production value of the global 320kW Inverter market?
5. Who are the key producers in the global 320kW Inverter market?
6. What are the growth factors driving the market demand?

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