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Global 320 kW High-Power Inverter Market Growth 2026-2032

https://marketpublishers.com/r/GA652200E033EN.html
Date: October 2026
Pages: 129
Price: US$ 3,660.00 (Single User License)
ID: GA652200E033EN

Abstracts

The global 320 kW High-Power Inverter market size is predicted to grow from US$ 118 million in 2025 to US$ 163 million in 2032; it is expected to grow at a CAGR of 3.5% from 2026 to 2032.

In 2025, global production of 320 kW high-power inverters reached 18,694 units, with an average selling price of US$6,440 per unit. The global annual production capacity for 320 kW high-power inverters is approximately 30,000 units, and the gross margin is about 30.2%. A 320 kW high-power inverter is a power electronic conversion device with a rated output power of 320 kilowatts, whose core function is to convert direct current generated by photovoltaic modules or energy storage systems into alternating current that matches the grid and feed it into the grid. It employs high-power switching devices such as IGBTs and advanced control algorithms, featuring maximum power point tracking (MPPT), high conversion efficiency, grid synchronization, anti?islanding protection, and intelligent monitoring. It is mainly used in large?scale ground?mounted photovoltaic power stations, commercial and industrial distributed PV systems, and large?scale energy storage systems, serving as the core equipment for power conversion and efficient grid connection in renewable energy generation. The upstream raw materials for 320 kW high-power inverters include semiconductors and electronic components, silicon wafers and discrete device materials, and so on. The midstream sector consists of manufacturers of 320 kW high-power inverters, while the downstream industries are primarily photovoltaic power stations, energy storage, and industrial applications.

Currently, the market for 320 kW high-power inverters is in a phase of rapid growth, driven by the continuous expansion of global renewable energy installed capacity, particularly the accelerated construction of large-scale ground?mounted photovoltaic

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plants and utility?scale energy storage projects, which steadily boost demand for high?power, high?efficiency inverter equipment. On the technology front, products are evolving toward higher conversion efficiency, greater power density, enhanced grid adaptability, and intelligent operation and maintenance; the gradual adoption of wide?bandgap semiconductors such as silicon carbide further improves system performance and reliability. The competitive landscape is becoming increasingly intense, with suppliers possessing core control algorithms, in?house IGBT module application capabilities, and robust after?sales service networks gaining advantages in large projects. Meanwhile, tightening grid?connection technical requirements for renewable energy continue to drive the upgrade of inverter functionalities, including low?voltage ride?through, reactive power compensation, harmonic suppression, and fault recording. Overall, the market is shifting from simple price competition to a battle of comprehensive performance, life?cycle service, and customized solutions, with branding and reputation playing an increasingly critical role. Nevertheless, differentiated demands across regions—such as high reliability and strict certification in European and American markets versus cost?effectiveness and fast delivery in emerging markets like Asia?Pacific—still offer diverse opportunities for a wide range of manufacturers.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the “320 kW High-Power Inverter Industry Forecast” looks at past sales and reviews total world 320 kW High-Power Inverter sales in 2025, providing a comprehensive analysis by region and market sector of projected 320 kW High-Power Inverter sales for 2026 through 2032. With 320 kW High-Power Inverter sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world 320 kW High-Power Inverter industry.

This Insight Report provides a comprehensive analysis of the global 320 kW High-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 320 kW High-Power Inverter portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global 320 kW High-Power Inverter market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 320 kW High-Power Inverter and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging

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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 320 kW High-Power Inverter.

This report presents a comprehensive overview, market shares, and growth opportunities of 320 kW High-Power Inverter market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Centralized

Serialized

Segmentation by Energy Management Function:

Grid-Connected

Hybrid

Segmentation by Output Waveform:

Square Wave Inverter

Sine Wave Inverter

Segmentation by MPPT Configuration:

12 Channels

14 Channels

16 Channels

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Segmentation by Application:

Photovoltaic Power Plants

Energy Storage

Industrial

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

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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.

Billion Electric

Growatt

Slenergy

SolaX Power

SUNGROW

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Ginlong

GoodWe

CSI SOLAR

CHNT POWER

PrimeVOLT

KSTAR

HYXiPOWER

SINENG

HOPEWIND

ENF Solar

Hitachi Hi-Rel

EAST

Key Questions Addressed in this Report

What is the 10-year outlook for the global 320 kW High-Power Inverter market?

What factors are driving 320 kW High-Power Inverter market growth, globally and by region?

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

How do 320 kW High-Power Inverter market opportunities vary by end market size?

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How does 320 kW High-Power Inverter break out by Type, by Application?

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