

Global PV Inverter Data Loggers and Communication Gateways Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global PV Inverter Data Loggers and Communication Gateways market size was valued at US\$ 564 million in 2025 and is forecast to a readjusted size of US\$ 809 million by 2032 with a CAGR of 5.6% during review period.

PV inverter data loggers and communication gateways are dedicated communication devices used to collect, aggregate, store, and transmit operating data from PV inverters and related plant equipment. They typically connect to inverters, electricity meters, energy storage systems, and environmental monitoring instruments through RS485, CAN, Ethernet, power line communication, or proprietary wireless links, and upload voltage, current, power, energy yield, operating status, and fault alarm data to local monitoring systems or cloud platforms through Wi-Fi, Ethernet, or 4G networks. Some products also provide protocol conversion, remote configuration, firmware upgrades, power regulation, and zero-export control. Major product types include plug-in communication sticks, centralized data loggers, microinverter gateways, and plant-level communication gateways. Key upstream inputs include PCBs, microcontrollers, memory devices, communication chips and modules, power management ICs, isolation components, connectors, antennas, and engineering-plastic or metal enclosures. Major downstream customers include PV inverter and microinverter manufacturers, EPC contractors, system integrators, installers, plant owners, and third-party O&M service providers. The global effective production capacity in 2025 is estimated at approximately 14.8 million units, with actual sales of around 10.875 million units, a weighted average ex-factory price of approximately USD 50.5 per unit, and an industry gross margin of about 28%-40%.

Demand for PV inverter data loggers and communication gateways is expected to maintain steady growth as global PV installations continue to expand. Increasing requirements for operating data visualization, remote monitoring, and fault warning across residential, commercial and industrial, and utility-scale PV projects are driving these devices beyond basic data transmission toward integrated communication terminals combining data acquisition, protocol conversion, local storage, and remote O&M. Digital retrofits and equipment replacement at existing PV plants are also creating additional opportunities for third-party multi-brand gateways and plant-level data logging systems.

Product development is moving toward broader protocol compatibility, wireless connectivity, platform integration, and intelligent functions. In addition to conventional RS485 and Ethernet connections, Wi-Fi, 4G, power line communication, and proprietary wireless protocols are becoming more widely adopted, while some products support automatic network switching and offline data buffering. As PV systems are increasingly integrated with energy storage, electricity meters, environmental monitoring equipment, and charging infrastructure, communication gateways must support a wider range of devices and protocols and are gradually taking on functions such as power regulation, zero-export control, equipment coordination, and edge computing.

The competitive landscape remains dominated by inverter manufacturers that provide dedicated communication accessories, while specialist data logger and third-party gateway suppliers mainly serve multi-brand equipment integration, existing plant retrofits, and complex commercial and industrial projects. Large inverter vendors benefit from closed ecosystems combining hardware, cloud platforms, and after-sales services, giving them a strong position in new installations. Specialist suppliers differentiate themselves through open protocols, cross-brand compatibility, and flexible deployment. Future competition will increasingly focus on device compatibility, platform reliability, data security, and remote O&M capabilities rather than hardware price alone.

Industry development is still constrained by inconsistent product standards, fragmented communication protocols, and relatively low hardware value. Some communication sticks are bundled with inverters, making independent market size and shipment volumes difficult to separate accurately. Differences in wireless communication standards, grid-control requirements, and data-security regulations across regions also increase certification and localization costs. As standard protocols such as SunSpec and Modbus gain wider adoption and PV plant digitalization advances, product interoperability and standardization are expected to improve, while market concentration gradually shifts toward suppliers with integrated hardware and software capabilities,

reliable cloud platforms, and global service networks.

Report Scope

This report is a detailed and comprehensive analysis for global PV Inverter Data Loggers and Communication Gateways market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global PV Inverter Data Loggers and Communication Gateways market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global PV Inverter Data Loggers and Communication Gateways market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global PV Inverter Data Loggers and Communication Gateways market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global PV Inverter Data Loggers and Communication Gateways market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for PV Inverter Data Loggers and Communication Gateways

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global PV Inverter Data Loggers and Communication Gateways market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Huawei Technologies, Sungrow Power Supply, Enphase Energy, SolarEdge Technologies, SMA Solar Technology, Fronius International, GoodWe Technologies, Growatt New Energy, Ginlong Technologies, SolaX Power, etc.

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

Market Segmentation

PV Inverter Data Loggers and Communication Gateways market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Plug-in

Centralized

Microinverter Gateway

Other

Market segment by Uplink Connectivity

Wired

Wireless

Hybrid

Market segment by Inverter Architecture

String Inverter Systems

Central Inverter Systems

Microinverter Systems

Market segment by Application

Residential PV

Commercial and Industrial PV

Utility-scale PV

Major players covered

Huawei Technologies

Sungrow Power Supply

Enphase Energy

SolarEdge Technologies

SMA Solar Technology

Fronius International

GoodWe Technologies

Growatt New Energy

Ginlong Technologies

SolaX Power

Hoymiles Power Electronics

Yuneng Technology

Kehua Tech

IGEN Tech

Delta Electronics

Guangzhou Sanjing Electric

Solar-Log

meteocontrol

Webdyn

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe PV Inverter Data Loggers and Communication Gateways product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of PV Inverter Data Loggers and Communication Gateways, with price, sales quantity, revenue, and global market share of PV Inverter Data Loggers and Communication Gateways from 2021 to 2026.

Chapter 3, the PV Inverter Data Loggers and Communication Gateways competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the PV Inverter Data Loggers and Communication Gateways breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and PV Inverter Data Loggers and Communication Gateways market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of PV Inverter Data Loggers and Communication Gateways.

Chapter 14 and 15, to describe PV Inverter Data Loggers and Communication Gateways sales channel, distributors, customers, research findings and conclusion.

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