# India UPS Market By Type (Online, Offline, Line Interactive), By Rating (Less than 5kVA, 5.1 kVA - 50 kVA, 50.1 kVA - 200 kVA, Others), By Application (Commercial, Residential, Government, Industrial), By Sector (Data Centers, OEM (Manufacturing), IT (Excluding Data Centers), BFSI, Housing, Healthcare, Railways, Oil & Gas, Power, Solar, Others), By Region, Competition, Forecast & Opportunities, 2018-2030

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**Report description:**

India UPS Market was valued at USD 1.16 billion in 2022 and is expected to project robust growth during the forecast period, registering a CAGR of 8.20% through 2030 owing to favorable government initiatives and growing demand for power backup solutions, etc.

In the event of power loss, UPS (Uninterrupted Power Supply) equipment delivers both backup and primary power. It serves as the foundational part of the power protection architecture. In the event of unplanned power outages, a UPS is generally used to safeguard desktop computers, telecommunication devices, data centers, electrical equipment, etc., against equipment damage and potential data loss or major business disruption.

Residential, manufacturing, industrial, IT/ITES, BFSI, SME, healthcare, telecom, retail, education, and government sectors all make extensive use of UPS systems.

Revitalization Through Technologies Driving Market Growth

Both branded and unbranded local manufacturers compete for shelf space and the best pricing in the UPS market. As a result, aggressive tactics, including alliances, mergers, purchases, and collaborations, are widespread. Increasing demand-led strategies have kept the momentum of improvising on technologies so that customers can be offered better deals. As a result, the industry is focusing on more research and development to launch more advanced products. One of the cutting-edge technologies is the online UPS, which is the most often used piece of hardware for protecting any crucial electrical and electronic gear or data from power shortages and fluctuations. A double-conversion UPS automatically changes to battery mode if the main supply or

fluctuations exceed a particular threshold.

Green UPS Systems

Over the past few years, energy costs have increased significantly, and customers have therefore grown more environmentally sensitive. These reasons have led to the development of energy-efficient green UPS technology by several companies. The power consumption of UPS systems decreased by up to 75% when comparing green UPS solutions to regular UPS designs. As a result, one of the important factors that purchasers consider while evaluating UPS systems is the design's energy efficiency. Additionally, green UPS systems' improved monitoring and thermal design technologies reduce heat production. Consequently, an increase in the usage of green UPS devices in a range of applications, including IT networks and telecommunications, is anticipated that demand for green UPS will increase considerably over the projected period.

Transformer-less UPS Systems

In transformer-free UPS systems, the large, expensive, and loud transformer component is replaced by an Insulated Gate Bipolar Transistor (IGBT) to handle high voltages. The initial investment and continuing operational expenses are reduced by its smaller and lighter size, which makes it easier to install and transport. The transformer-less UPS has several significant benefits, including being more compact and lightweight, operating more effectively (especially at lower loads), producing less heat and noise, being inexpensive, simple to install, and being user-friendly.

Need For High-Quality, Efficient UPS for Continuous Power Supply

Due to the need for a high-quality and effective system that delivers a constant power supply, the market for UPS solutions is expected to increase considerably over the course of the forecast period. It is, therefore, more crucial than ever to realize that a steady power supply is required during peak usage. Hence, in India, due to the increasing population, the demand for continuous power supply increases, which positively impacts the need for high-quality UPS systems. The major manufacturing facilities such as retail, healthcare, telecom, and other commercial and residential sector end-users are recognizing the value and need for the power protection and efficient power storage capabilities offered by the modular uninterruptible power supply (UPS). Moreover, the need to protect connected devices from frequent power fluctuations is anticipated to be one of the driving factors for the growth of this market. The intelligent use of these devices against power surges, voltage drops, and frequency distortions, along with the emergency need for power, helps optimize the damage that occurs due to downtime.

Furthermore, natural calamities such as cyclones and heavy rainfall and human errors such as overload and operational accidents are some of the challenges in providing a continuous power supply, contributing to the demand for UPS products. Due to the abovementioned factors, it becomes challenging for power suppliers to provide an adequate amount of electricity to run the electrical appliances seamlessly. To overcome these challenges, smaller uninterruptible power supply (UPS) devices are used as an interface between the primary power source and connected devices, which helps provides consistent power backup during fluctuations in power supply.

Thus, the need for high-quality, efficient UPS systems to provide a continuous power supply to maintain the power demand during peak hours and in remote and urban areas is expected to drive the India UPS market growth during the forecast period.

Need for Emergency Power in Remote Areas:

A steady and continuous power supply is vital for numerous economic activities in developing regions such as India. The power supply must be ensured in remote areas, including in cases of storms, grid problems, and power failures across different sectors. For instance, the emergency medical care facilities in distant locations, particularly those where hospitals are not easily accessible, and power is not connected to the grid, require electricity to run the medical appliances (or equipment). Such locations require cost-effective solutions and remote power consumption. Hence, to overcome this issue, medical facilities depend on power backup solutions which would increase demand for UPS systems.

Advancement in Self-Diagnostic Features:

With the advancement of technology, companies have increased their investment in delivering highly reliable UPS systems with self-diagnostic capabilities. Commercial sectors such as retail, data centers, industries, and others constantly need self-diagnostic UPS systems that prevent hardware from being damaged during power outages. Self-diagnostic UPS ensures adequate power supply for the appliances (or equipment) during downtime and helps them to remain functional even with an optimum range of input voltage. The self-diagnostic UPS features include different capabilities like battery management solutions, remote UPS monitoring solutions, and software and communication solutions.

For instance, remote UPS monitoring applications continuously monitor the performance of UPS systems and generate warning signs about upcoming events, such as deteriorating performance, overheating of the battery, and real-time notifications. These features provide proactive solutions for technical personnel to make urgent repairs before any serious outages occur.
In addition, software and communications play a critical role in influencing the adoption of UPS systems. With the increase in electric networks, UPS communication between hardware and software has become more sophisticated. The advancement is mainly attributed to the significant development in power management software equipped with automatic features such as remote notification through email, SMS, data accumulation leading to report generation, trending analysis, etc. In light of these advancements, UPS systems are becoming more dependable, accessible, and flexible in terms of minimizing downtime, saving time and money, and increasing overall customer satisfaction.
Restraint: High Technological Complexities
High technological complexities and lack of standards associated with UPS products have prompted domestic manufacturers to enter the market and offer low-quality products at low prices, which are either faulty or work for a short period. Due to it, the market for authorized manufacturers is being affected negatively. In recent years, energy storage, modularity, and scalability have been the major technological advancements in UPS systems. Every end-use industry has its own unique requirements. Hence, it becomes difficult for the manufacturers to fulfill such demands. For instance, UPS, for applications in the military sector, must work in harsh environments or extremely cold and warm conditions. In such conditions, they require reliable solutions; however, while operating in such situations, technical failures such as overheating can occur due to a surge in input voltage. Furthermore, overheating can occur when dust blocks the air filters. The main technological complexity associated with UPS systems is battery replacement, which increases the maintenance cost of the product. The end user can use the battery for three to ten years, after which it needs to be replaced. Thus, the lack of standards and high technological complexities are expected to restrict the growth of the India UPS Market during the forecast period.
Market Segmentation
The India UPS market is segmented based on type, rating, application, sector, region, and company. Based on type, the market is further fragmented into online, offline, and line interactive. Based on the rating, the market is segmented into 5.1 kVA - 50 kVA, 50.1 kVA - 200 kVA, less than 5kva, and others. Also, segmentation of the market based on application is commercial, industrial, government, and residential. Based on sector, the market is segmented into data centers, OEM (manufacturing), IT (excluding data centers), BFSI, housing, healthcare, railways, oil & gas, power, solar, and others. Based on region, the market is segmented into North, South, East, and West India.
Company Profiles
Novateur Electrical & Digital System Pvt. Ltd., Vertiv Energy Pvt Ltd., Schneider Electric India Pvt. Ltd., Delta Power Solutions India Private Limited, Fuji Electric Consul Neowatt Private Limited, Microtek International Private Limited, Riello Power India Pvt Ltd., Eaton Power Quality Private Limited (India), Socomec Innovative Power Solutions Pvt. Ltd and Hitachi Hi-Rel Power Electronics Private Limited are some of the top players in India UPS Market.
Report Scope:
In this report, India UPS market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:
□□India UPS Market, By Type:
o□Online
o□Offline
o□Line Interactive
□□India UPS Market, By Rating:
o□5.1 kVA - 50 kVA
o□50.1 kVA - 200 kVA
o□Less than 5kVA
o□Others
□□India UPS Market, By Application:
o□Commercial

o Industrial
o Government
o Residential
India UPS Market, By Sector:
o Data Centers
o OEM (Manufacturing)
o IT (Excluding Data Centers)
o BFSI
o Housing
o Healthcare
o Railways
o Oil & Gas
o Power
o Solar
o Others
India UPS Market, By Region:
o South India
o West India
o North India
o East India
Competitive Landscape
Company Profiles: Detailed analysis of the major companies present in India UPS Market.
Available Customizations:
With the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:
Company Information
Detailed analysis and profiling of additional market players (up to five).

**Table of Contents:**

# India UPS Market By Type (Online, Offline, Line Interactive), By Rating (Less than 5kVA, 5.1 kVA - 50 kVA, 50.1 kVA - 200 kVA, Others), By Application (Commercial, Residential, Government, Industrial), By Sector (Data Centers, OEM (Manufacturing), IT (Excluding Data Centers), BFSI, Housing, Healthcare, Railways, Oil & Gas, Power, Solar, Others), By Region, Competition, Forecast & Opportunities, 2018-2030

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