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UPS Market- Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented By Capacity (Less than 10 kVA, 10-100 kVA and Above 100 kVA), By Technology (Standby UPS System, Online UPS System and Line-interactive UPS System), By Power Consumption (Data Centers, Telecommunications, Healthcare, Industrial and Others), By Region, Competition

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Abstracts

The Global UPS Market reached a size of USD 15.83 billion in 2022 and is projected to grow to USD 19.52 billion by 2028, with a CAGR of 6.05% from 2022 to 2028. The UPS market is projected to be driven by the growing demand for electricity, rising disposable income, and the need for a reliable power source. Industries and organizations heavily reliant on consistent electricity for efficient operations face significant disruptions and losses due to power outages and fluctuations. Developing nations face challenges in maintaining high-quality power supply. Additionally, the fourth industrial revolution has witnessed substantial growth in recent years, transforming manufacturing processes through the integration of cutting-edge technologies such as IoT, cloud computing, analytics, AI, and machine learning. Given the criticality of these operations, many businesses employ UPS systems to stabilize power and ensure uninterrupted data security and production line efficiency during outages. Consequently, the UPS market is expected to witness growth during the forecast period based on the aforementioned factor.

Key Market Drivers

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Surge in Industrial Automation and IoT Adoption

The proliferation of industrial automation and the adoption of the Internet of Things (IoT) have emerged as significant drivers of the global UPS market. The manufacturing, transportation, logistics, and smart infrastructure industries have wholeheartedly embraced automation and IoT technologies to optimize processes, enhance productivity, and reduce human intervention. Automation heavily relies on sensitive electronic devices and control systems, which are susceptible to power disruptions. Even a momentary power interruption can result in costly production losses and compromised safety. UPS systems act as a reliable buffer, ensuring continuous power supply to automation controllers, sensors, and actuators, thereby minimizing the risk of process disruption and equipment damage. IoT devices, integrated into various applications, collect and transmit real-time data, enabling intelligent decision-making and remote control. To maintain the integrity and availability of IoT data streams, UPS systems serve as a critical safeguard during power failures, keeping communication channels open and preventing data loss.

Growing Concerns about Power Quality and Reliability

Growing concerns regarding power quality and reliability are driving the widespread adoption of UPS systems globally. Utility power supply often encounters voltage fluctuations, sags, surges, or blackouts, posing risks to electronic devices and sensitive equipment. Even minor power disturbances can result in equipment malfunction, data corruption, or system failure. UPS systems effectively tackle power quality issues by delivering clean and stable power to connected equipment. They serve as a protective barrier, shielding sensitive devices from utility power irregularities and ensuring a consistent supply of regulated power. This not only extends the lifespan of equipment but also enhances system performance and efficiency. Businesses and organizations are increasingly cognizant of the expenses associated with power-related disruptions, including equipment repairs, data recovery, and productivity losses. Consequently, they invest in UPS systems to mitigate these risks and maintain uninterrupted operations, particularly in regions with unreliable utility power.

Need for Business Continuity and Disaster Recovery

The demand for business continuity and disaster recovery solutions is a significant driving force behind the global UPS market. Organizations face a range of threats, including natural disasters, equipment failures, cyber-attacks, and utility grid outages. The consequences of such disruptions can be severe, resulting in financial losses and

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damage to reputation. UPS systems play a crucial role in business continuity plans, ensuring uninterrupted operations during power outages. By providing immediate backup power, UPS systems enable businesses to execute orderly shutdowns or smoothly transition to secondary power sources, mitigating data loss and minimizing downtime. Comprehensive backup power solutions are essential for disaster recovery planning, safeguarding critical infrastructure and ensuring uninterrupted services for customers. UPS systems are an integral part of effective disaster recovery strategies, protecting data centers, communication networks, and vital equipment to facilitate swift recovery and restoration efforts.

Key Market Challenges

Increasing Power Capacity Requirements

One of the significant challenges facing the global UPS (Uninterruptible Power Supply) market is the increasing power capacity requirements driven by the growing demand for power-hungry electronic devices and infrastructure. As the world becomes more digitally connected, data centers, cloud computing facilities, and critical infrastructure demand higher power capacities to support their operations. Additionally, the rise of industrial automation, electric vehicles, and smart cities further contributes to the surge in power consumption. The challenge arises from the need to scale UPS systems to effectively meet these rising power demands. Modern data centers, for instance, house thousands of servers and storage devices, necessitating large-scale UPS installations with substantial capacity. UPS manufacturers must develop high-power density solutions that occupy minimal space while offering efficient power backup to cater to the requirements of mega-scale data centers. Moreover, advancements in computing technologies, such as artificial intelligence (AI) and high-performance computing (HPC), drive the need for more robust and power-efficient UPS solutions. These technologies demand uninterrupted power supply to maintain seamless processing and prevent data loss. Meeting these higher power capacity demands while ensuring energy efficiency and cost-effectiveness poses a significant technical and engineering challenge for UPS manufacturers.

Environmental Sustainability and Energy Efficiency

With the world's growing environmental consciousness, the global UPS market encounters the imperative of ensuring environmental sustainability and energy efficiency in UPS systems. UPS installations, especially in data centers and large-scale facilities, consume significant amounts of energy. The environmental impact of such

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power consumption, in addition to the associated carbon emissions, raises concerns regarding the UPS market's contribution to climate change. To address this challenge, UPS manufacturers must prioritize the development of energy-efficient UPS solutions that reduce power losses and minimize carbon footprints. Advancements in power electronics and battery technologies play a pivotal role in enhancing UPS efficiency and overall energy consumption. One strategy for improving energy efficiency in UPS systems is the adoption of modular designs. Modular UPS architectures enable users to scale UPS capacity based on real-time power demands, eliminating overprovisioning and reducing energy waste during periods of low load. Additionally, implementing advanced cooling techniques and low-loss transformers further optimizes energy utilization in UPS systems. Another crucial aspect of environmental sustainability in the UPS market lies in the use of eco-friendly materials and recyclable components. UPS manufacturers are increasingly embracing sustainable practices in manufacturing, incorporating environmentally friendly materials in UPS construction, and ensuring proper recycling and disposal of UPS components at the end of their lifecycle. Furthermore, integrating energy-efficient power management features and smart monitoring systems in UPS solutions empowers users to track power consumption, identify inefficiencies, and implement energy-saving measures. In conclusion, the global UPS market confronts challenges in meeting the escalating power capacity requirements driven by digitalization and rising power consumption in critical applications. Simultaneously, industry must address concerns regarding environmental sustainability and energy efficiency to align with the global push for greener and more energy-conscious practices. Overcoming these challenges necessitates continuous research and development, collaboration with end-users, and a steadfast commitment to innovation in creating more sustainable UPS solutions.

Key Market Trends

Increasing Dependence on Digital Infrastructure and Data Centers

The global UPS (Uninterruptible Power Supply) market is propelled by the ever-growing reliance on digital infrastructure and data centers. With the rapid expansion of digitalization, cloud computing, and data-driven technologies, businesses and organizations from various sectors heavily depend on uninterrupted power supply to safeguard critical data and ensure continuous operations. Data centers, in particular, have become the backbone of the digital economy as they store and process vast amounts of information. These facilities necessitate robust power protection solutions to prevent data loss, equipment damage, and costly downtime. A UPS system offers immediate backup power during utility outages or fluctuations, ensuring a seamless

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transition to generator power or system shutdown, thus preserving critical data integrity and ensuring smooth operations. The increasing prevalence of remote work, online services, and e-commerce further underscores the significance of a reliable power supply. Disruptions or downtime in these digitally driven environments can result in lost revenues, reduced productivity, and harm to brand reputation. Consequently, organizations invest in high-quality UPS systems to safeguard their mission-critical equipment, maintain productivity, and deliver uninterrupted services to customers.

Segmental Insights

Type Insights

The Online UPS is expected to hold the largest market share during the forecast period, demonstrating its dominance. This can be attributed to various factors. Online UPS systems provide the highest level of power protection by consistently converting AC power to DC and then back to AC, ensuring a reliable and clean power supply. These UPS systems offer seamless protection against power outages, voltage fluctuations, and electrical disturbances. They are extensively utilized in critical applications such as data centers, healthcare, and industrial sectors, where reliable and uninterrupted power supply solutions are crucial. The increasing demand for power backup solutions and the growing reliance on digital infrastructure have further bolstered the online/double conversion segment's prominence in the market.

Capacity Insights

The Above 100 kVA power range segment is expected to dominate the market during the forecast period. This can be attributed to the increasing demand for UPS systems in medium to large-scale applications that necessitate higher power capacities. Key industries such as data centers, manufacturing, telecommunications, and healthcare heavily rely on UPS systems within this power range to ensure uninterrupted power supply for their critical operations. The 51-200 kVA segment strikes a balance between power capacity, efficiency, and cost-effectiveness, making it a preferred choice among customers and solidifying its prominent position in the market.

Regional Insights

The Asia-Pacific region is a developing area characterized by frequent blackouts and unstable power supply, particularly in countries like Malaysia, Cambodia, Philippines, and others. The region's booming industrial and manufacturing sector, telecom sector,

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commercial sector, and residential sector are the major end-users of UPS systems. Manufacturing, in particular, plays a significant role in the economies of various countries, with China being the largest manufacturing hub. Japan, India, South Korea, and Indonesia also contribute significantly in the Asia-Pacific region. Moreover, countries like Vietnam, Malaysia, and Singapore are projected to increase their market share in the forecast period. The automation of manufacturing processes, involving computer-based control systems, Programmable Logic Control (PLC) units, and process control applications, has driven the demand for UPS systems in industrial facilities. UPS systems not only provide backup power during outages but also safeguard equipment from power-related glitches such as sags, surges, voltage fluctuations, line noise, and harmonic distortions. As a result, UPS systems have become indispensable in various industries including telecom, engineering, manufacturing, R&D, education, medicine, IT, BPO, aviation, and banking. The manufacturing sector encompasses diverse industries such as automotive, food processing, semiconductors, and steel manufacturing, all of which rely on power quality equipment like UPS systems for uninterrupted operations, as power fluctuations and disruptions can lead to substantial financial losses.

Key Market Players

Riello Elettronica SpA

EATON Corporation PLC

Emerson Electric Co.

Delta Electronics Inc.

ABB Ltd

Schneider Electric SE

Hitachi Ltd

Mitsubishi Electric Corporation

General Electric Company

Cyber Power Systems Inc.

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Report Scope:

In this report, the Global UPS Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Global UPS Market, By Capacity:

Less than 10 kVA

10-100 kVA

Above 100 kVA

Global UPS Market, By Technology:

Standby UPS System

Online UPS System

Line-interactive UPS System

Global UPS Market, By Power Consumption:

Data Centers

Telecommunications

Healthcare

Industrial

Others

Global UPS Market, By Region:

North America

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Europe

South America

Middle East & Africa

Asia Pacific

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global UPS Market.

Available Customizations:

Global UPS Market report with the given market data, Tech Sci 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).

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