

The Global Modular UPS Market Projected to Grow to USD 2.60 Billion by 2029 With a CAGR of 9.2%

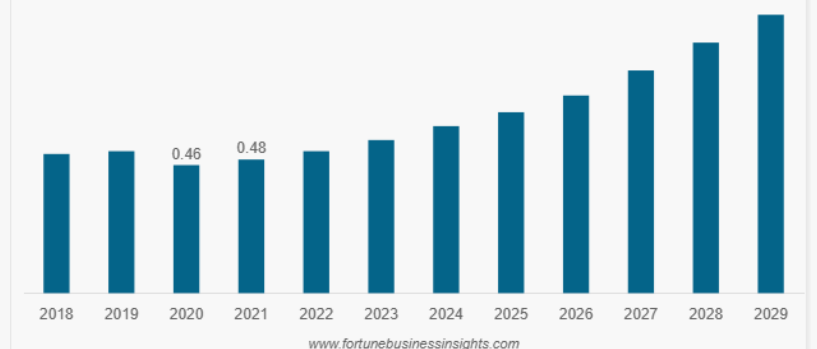
List of Top Key Players in Modular UPS Industry are Kehua Data Co., Ltd., Eaton, Delta Electronics, Inc., ABB, Schneider Electric, Shenzhen Kstar Technology

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EINPresswire.com/ -- The global [Modular UPS market](#) size was valued at USD 1.32 billion in 2021 and is projected to grow from USD 1.41 billion in 2022 to USD 2.60 billion by 2029, exhibiting a CAGR of 9.2% during the forecast period.

North America Modular Uninterruptible Power Supply Market Size (USD Billion), 2018-2029



Modular UPS market

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North America dominated the global market with a share of 36.36% in 2021."

Fortune Business Insights

Growth in this market is being driven by increased dependence on critical infrastructure (especially data centers and IT operations), demand for zero-downtime power continuity, scalable and modular architectures, and rising investments in digital infrastructure globally. Modular UPS systems, which allow hot-swappable

modules and graded redundancy, are increasingly preferred for their flexibility, maintainability, and ability to scale in response to evolving load demands.

Market Size & Growth Projections

The global Modular UPS market size was valued at USD 1.32 billion in 2021 and is projected to grow from USD 1.41 billion in 2022 to USD 2.60 billion by 2029, exhibiting a CAGR of 9.2% during the forecast period.

This growth trajectory underscores the rising importance of modular, scalable, and resilient power solutions in environments where downtime is unacceptable — such as data centers, healthcare, industrial automation, telecommunications, and other mission-critical applications.

Key Drivers of Market Growth

1. Need for Zero Downtime / Reliable Power Continuity

Many modern operations cannot risk power interruptions. Modular UPS systems are designed to maintain continuity, offering redundant modules that can be serviced without shutting down the entire system.

2. Scalability & Modularity

The ability to incrementally add modules ($n + x$ redundancy) allows users to expand capacity gradually as load demands rise, avoiding overinvestment upfront. Hot-swappable modules enhance system maintainability.

3. Rapid Digitalization & Data Center Expansion

Growth in cloud computing, IoT, AI, edge computing, and large-scale data centers is propelling demand for advanced UPS infrastructure that supports high availability and flexibility.

4. Infrastructure Investments in Emerging Markets

Emerging economies are witnessing robust growth in connectivity and digital infrastructure, pushing demand for modular UPS in regions like Asia Pacific.

5. Energy Efficiency, Sustainability, & Cost Optimization

As organizations aim to reduce operational costs and environmental impact, modular UPS systems that deliver high efficiency, reduced energy loss, and easier maintenance become more attractive.

Restraints / Challenges

- High Initial and Maintenance Costs

Modular UPS systems require considerable capital investment, and ongoing costs (battery replacement, cooling, service contracts) can be substantial.

- Complexity of Implementation

Integrating modular systems (especially in existing infrastructure) may require advanced electrical and system planning, making rollout more challenging.

- Supply Chain Disruptions

Global supply chain issues have affected components and lead times for modular UPS systems.

- Market Maturity & Competition from Conventional UPS

In some segments or smaller deployments, conventional UPS systems (non-modular) may still be more cost-effective, especially where scale or redundancy needs are modest.

Segmentation & Regional Analysis

Segmentation

The modular UPS market is segmented across multiple dimensions:

- Capacity bands include: below 1.5 kVA, 1.5 kVA to 5 kVA, 5.1 kVA to 10 kVA, 10.1 kVA to 200 kVA, and above 200 kVA.
- Topology types include: standby UPS, line interactive, and double conversion (online). The double conversion segment is expected to hold a leading share due to its higher efficiency and continuous power delivery.
- Phase: Single phase and three phase (for higher capacity/industrial loads) modules are offered.
- End-users: Data centers, IT & telecommunications, healthcare, industrial, utilities, BFSI, and others.

The 10.1 kVA to 200 kVA band is expected to lead owing to its broad applicability across mid-tier deployments.

Regional / Geographic Outlook

- North America

This region is a mature market with a strong presence of data centers, cloud providers, and enterprises demanding high reliability.

- Asia Pacific

The region is projected to witness rapid growth driven by emerging economies investing in digital infrastructure, cloud rollout, and smart city initiatives.

- Europe, Latin America, Middle East & Africa

These regions are also contributing to growth, with increasing awareness of uptime, regulatory demands, and modernization of infrastructure.

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Report Coverage

This report provides an in-depth analysis of the modular UPS market, covering key aspects such as:

- Market Size & Forecast: Detailed insights into the current market size, historical trends, and future projections.
- Key Market Drivers & Restraints: Analysis of the major factors influencing market growth, including opportunities and challenges.
- Segmentation & Regional Analysis: Breakdown of the market by capacity, topology, phase, end-user, and geography.
- Competitive Landscape: Profiling of key players, their strategies, and recent industry developments.
- Regulatory Framework: Overview of government policies and incentives impacting the UPS industry.
- Technological Advancements: Examination of innovations and emerging trends in modular

UPS design and applications.

Future Outlook & Emerging Trends

- Three-Phase Modular UPS Growth

The three-phase modular UPS segment is growing steadily, especially for larger installations requiring balanced power distribution and higher capacity.

- Lithium-Ion Battery Adoption

Many modular UPS providers are shifting from VRLA to lithium-ion batteries, which offer higher energy density, longer lifecycles, faster recharge, and lower maintenance.

- Integration with Monitoring & AI / Predictive Maintenance

More modular systems will incorporate advanced analytics, IoT sensing, and AI for predictive health monitoring, anomaly detection, and proactive maintenance.

- Edge Computing & Distributed UPS Deployments

Growth in edge data centers, micro data hubs, and distributed IT infrastructure will push demand for modular UPS with compact footprints and scalability.

- Green / Sustainable Design

Efficiency standards, carbon goals, and regulatory pressures will favor modular UPS units with high conversion efficiency, low losses, and designs compatible with renewable energy integration.

Competitive Landscape

Prominent players in the modular UPS market include:

- Kehua Data Co., Ltd. (China)
- Eaton (Ireland)
- Delta Electronics, Inc. (Taiwan)
- ABB (Switzerland)
- Schneider Electric (France)
- Shenzhen Kstar Technology Co., Ltd. (China)
- Vertiv Group Corp. (U.S.)
- Riello UPS (RPS S.p.A.) (Italy)
- Toshiba International Corporation (U.S.)
- Gamatronic Electronic Industries Ltd. (Israel)

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