

Transformerless UPS Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2022-2027

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Abstracts

The global transformerless UPS market reached a value of US\$ 1.6 Billion in 2021. Looking forward, IMARC Group expects the market to reach US\$ 3.4 Billion by 2027, exhibiting a CAGR of 13.53% during 2022-2027. Keeping in mind the uncertainties of COVID-19, we are continuously tracking and evaluating the direct as well as the indirect influence of the pandemic on different end use industries. These insights are included in the report as a major market contributor.

Uninterruptible power supply (UPS) refers to a device that helps computers run for a short while in case the primary source of power fails. Unlike inverter systems, UPS systems provide near-instantaneous power supply, as well as intercept power surge from the primary source. Earlier system designs used a transformer to boost low incoming voltages, but nowadays, there is a significant rise in the usage of transformerless UPS systems. Transformerless UPS systems rely on insulated-gate bipolar transistors (IGBTs) that deal with high voltages and eliminate the requirement for a step-up transformer after the inverter. These systems have a smaller carbon footprint and assist in reducing investments and running costs.

The utilization of transformerless UPS is currently increasing at a rapid pace, especially in sectors that rely on a continuous power supply. Consequently, these systems have become key components in industries such as BFSI, telecommunications, power generation, oil and gas, railways and aviation. Another defining trend in the market is the escalating demand for more compact and sleek systems. Furthermore, the leading manufacturers are focusing on the introduction of improved designs by integrating temperature sensors that allow direct thermal IGBT control. They are also reducing the number of components used to avoid faults and increase reliability. However, the

sudden outbreak of the coronavirus disease (COVID-19) and consequent lockdowns imposed by governing agencies of numerous countries have led to a reduction in the overall production due to disruptions in the supply chain. The market is expected to experience growth once lockdown restrictions are uplifted.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global transformerless UPS market, along with forecasts at the global, regional and country level from 2022-2027. Our report has categorized the market based on component type, power and end use industry.

Breakup by Component Type:

- Rectifier and Inverter Components
- Battery
- PCB
- Electromechanical Components
- Others

Breakup by Power:

- 10-100 KVA
- 101-250 KVA
- More than 250 KVA

Breakup by End Use Industry:

- BFSI
- Telecommunication
- Government
- Manufacturing
- Transportation
- Healthcare
- Others

Breakup by Region:

- North America
- United States

Canada
Asia Pacific
China
Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The report has also analysed the competitive landscape of the market with some of the key players being ABB Ltd., Borri S.p.A, Eaton Corporation Plc, Emerson Electric Co., General Electric Company, Mitsubishi Electric Corporation, RPS S.p.A. (Riello Elettronica S.p.A.), Schneider Electric, Shenzhen Kstar Science & Technology Co. Ltd. and Toshiba Corporation.

Key Questions Answered in This Report:

How has the global transformerless UPS market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global transformerless UPS market?

What are the key regional markets?

What is the breakup of the market based on the component type?

What is the breakup of the market based on the power?

What is the breakup of the market based on the end use industry?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global transformerless UPS market and who are the key players?

What is the degree of competition in the industry?

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