

# Global Lithium-ion Battery for Uninterruptible Power Supply (UPS) Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Lithium-ion Battery for Uninterruptible Power Supply (UPS) market size is expected to reach \$ 2065 million by 2032, rising at a market growth of 6.9% CAGR during the forecast period (2026-2032).

Lithium-ion Battery for Uninterruptible Power Supply (UPS) are core energy storage components specially designed for UPS systems, mainly adopting lithium iron phosphate (LiFePO<sub>4</sub>) chemistry with integrated Battery Management System (BMS). They switch to power supply within milliseconds during mains outage, voltage surges, sags or harmonic disturbances, ensuring continuous operation of data centers, industrial controls, medical and financial equipment. Compared with traditional lead-acid batteries, they feature higher energy density, longer cycle life, higher charging/discharging efficiency, lower maintenance, deep discharge capability and fast recharging. Suitable for rack-mounted, modular and industrial UPS models, they serve as the core solution for lead-acid to lithium conversion in mission-critical power supply, balancing safety, long-term reliability and total cost of ownership. In 2025, the global price range for Lithium-ion Battery for Uninterruptible Power Supply (UPS) was approximately 120-285 US\$/kWh, with an average industry gross profit margin of around 18%.

Lithium-ion Battery for Uninterruptible Power Supply (UPS) are evolving from a 'lead-acid alternative' to an essential component of critical power supply systems. The core drivers are no longer merely space saving and reduced maintenance, but meeting the comprehensive requirements of high reliability, high power density, rapid recovery and intelligent operation and maintenance in scenarios such as data centers, AI computing centers and telecommunication equipment rooms. Industry competition is also shifting

from individual cell performance to system-level capabilities, including BMS, fire safety, thermal management, cabinet integration, compatibility with UPS hosts, and full lifecycle services. The future market will prioritize the 'high safety + high power + high integration' approach. Enterprises with in-house cell manufacturing, system integration, certification capabilities and project delivery experience will hold greater advantages, while manufacturers lacking scenario-specific insights and only producing general energy storage or consumer-grade lithium batteries will find it increasingly difficult to enter the high-barrier critical backup power market. Public materials from Eaton, Saft, Samsung SDI and others all indicate that lithium-ion batteries for UPS continue to deepen penetration into critical infrastructure and data center applications.

This report studies the global Lithium-ion Battery for Uninterruptible Power Supply (UPS) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Lithium-ion Battery for Uninterruptible Power Supply (UPS) and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Lithium-ion Battery for Uninterruptible Power Supply (UPS) that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Lithium-ion Battery for Uninterruptible Power Supply (UPS) total production and demand, 2021-2032, (MWh)

Global Lithium-ion Battery for Uninterruptible Power Supply (UPS) total production value, 2021-2032, (USD Million)

Global Lithium-ion Battery for Uninterruptible Power Supply (UPS) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (MWh), (based on production site)

Global Lithium-ion Battery for Uninterruptible Power Supply (UPS) consumption by region & country, CAGR, 2021-2032 & (MWh)

U.S. VS China: Lithium-ion Battery for Uninterruptible Power Supply (UPS) domestic production, consumption, key domestic manufacturers and share

Global Lithium-ion Battery for Uninterruptible Power Supply (UPS) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (MWh)

Global Lithium-ion Battery for Uninterruptible Power Supply (UPS) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (MWh)

Global Lithium-ion Battery for Uninterruptible Power Supply (UPS) production by

Application, production, value, CAGR, 2021-2032, (USD Million) & (MWh)

This report profiles key players in the global Lithium-ion Battery for Uninterruptible Power Supply (UPS) market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include CATL, Great Power, Sacred Sun, Pylon Technologies, Sunwoda Electronics, leoch International Technology, GS Yuasa, Saft, Samsung SDI, Shenzhen Grepow Battery, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Lithium-ion Battery for Uninterruptible Power Supply (UPS) market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (MWh) and average price (US\$/KWh) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Lithium-ion Battery for Uninterruptible Power Supply (UPS) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Lithium-ion Battery for Uninterruptible Power Supply (UPS) Market,  
Segmentation by Type:

LFP

NMC

Others

Global Lithium-ion Battery for Uninterruptible Power Supply (UPS) Market,  
Segmentation by Application:

Data Center

Telecom Backup Power

Others

Companies Profiled:

CATL

Great Power

Sacred Sun

Pylon Technologies

Sunwoda Electronics

leoch International Technology

GS Yuasa

Saft

Samsung SDI

Shenzhen Grepow Battery

DNK Power

A123 Systems

**Key Questions Answered:**

1. How big is the global Lithium-ion Battery for Uninterruptible Power Supply (UPS) market?
2. What is the demand of the global Lithium-ion Battery for Uninterruptible Power Supply (UPS) market?
3. What is the year over year growth of the global Lithium-ion Battery for Uninterruptible Power Supply (UPS) market?
4. What is the production and production value of the global Lithium-ion Battery for Uninterruptible Power Supply (UPS) market?
5. Who are the key producers in the global Lithium-ion Battery for Uninterruptible Power Supply (UPS) market?
6. What are the growth factors driving the market demand?

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