

Global Lithium-ion Battery Backup Unit Module Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Lithium-ion Battery Backup Unit Module market size was valued at US\$ 973 million in 2025 and is forecast to a readjusted size of US\$ 1999 million by 2032 with a CAGR of 10.6% during review period.

Global sales of lithium-ion Battery Backup Unit (BBU) modules are projected to reach 2.685 million units in 2025, with an average price of \$352 per unit.

A lithium-ion Battery Backup Unit (BBU) module is a short-term backup power supply module that utilizes lithium-ion cells as its core energy storage component and integrates a Battery Management System (BMS), protection circuitry, connection interfaces, and necessary structural components. In the event of a momentary power outage, voltage sag, or power source switchover affecting servers, power shelves, or data center main power supplies, the BBU module responds within milliseconds to provide continuous DC output. It offers short-term power support for servers, AI/GPU racks, storage devices, and network equipment until main power is restored or a downstream backup power source takes over. Common battery chemistries include Lithium Iron Phosphate (LFP) and ternary lithium (NCM/NCA). These modules feature high power density, rapid charge/discharge capabilities, long cycle life, and modular deployment, making them ideal for high-reliability power supply scenarios such as AI servers, data centers, cloud computing, telecommunications, and edge computing.

The upstream raw materials for BBU lithium batteries are largely the same as those for standard cylindrical lithium batteries. Key materials include cathode materials (ternary precursors or LFP), anode materials (artificial graphite), electrolytes (solvents and

lithium salts), separators (base film with ceramic or boehmite coatings), copper/aluminum foil current collectors, and steel casings with top cap assemblies. However, because BBU cells require high-rate discharge ($>10C$) and a cycle life exceeding 10 years, they impose stricter requirements on raw material purity, consistency, and formulation design. Cathode materials must be high-voltage, highly stable ternary systems or long-cycle-life LFP systems; anodes require high-rate artificial graphite or silicon-carbon composites; electrolytes must be compatible with high-voltage windows and incorporate special functional additives; and "full-tab" designs necessitate the use of specific tab welding materials and specialized structural components. Regarding cost structure, BBU lithium batteries are characterized by the absolute dominance of raw material costs, followed by manufacturing expenses and significant certification premiums. Taking cylindrical lithium batteries used in BBUs as a reference, raw materials account for approximately 75% of the total cost, with cathode materials representing the single largest expenditure; manufacturing costs account for about 15% (including equipment depreciation, energy consumption, and yield losses); and labor costs account for roughly 8%. From the perspective of the complete BBU module, the battery pack constitutes about 60% of the Bill of Materials (BOM), while charge/discharge and circuit control components account for approximately 20%, voltage converters for 15%, and structural components for 5%. Since BBU battery cells represent only 0.1%–0.2% of the total cost of an AI server rack, downstream customers are relatively insensitive to price but place extremely high demands on safety certifications (such as UL, IEC, and UN38.3) and long-term reliability; consequently, certification barriers and quality premiums constitute significant components of "hidden costs." Current industry trends show a shift in cell chemistry from ternary lithium (NCM/NCA) to lithium iron phosphate (LFP) to enhance safety, alongside an upgrade in cell form factor from the traditional 18650 to the full-tab 21700 to achieve higher power density (150–200W) and lower internal resistance.

Report Scope

This report is a detailed and comprehensive analysis for global Lithium-ion Battery Backup Unit Module market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Lithium-ion Battery Backup Unit Module market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Lithium-ion Battery Backup Unit Module market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Lithium-ion Battery Backup Unit Module market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Lithium-ion Battery Backup Unit Module market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Lithium-ion Battery Backup Unit Module

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Lithium-ion Battery Backup Unit Module market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Advanced Energy Solution Holding (AES-KY), Simplo Technology, Dynapack International Technology, LITEON Technology, STL Technology, Sysgration, Highpower Technology, Panasonic Energy, SAMSUNG SDI, LG Energy Solution, etc.

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

Lithium-ion Battery Backup Unit Module market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market Segmentation

Market segment by Type

Lithium Iron Phosphate (LFP) BBU Module

Ternary Lithium-ion BBU Module

Other

Market segment by Battery Cell Form Factor

Cylindrical Cell BBU Module

Prismatic Cell BBU Module

Pouch Cell BBU Module

Market segment by Rated Output Power

Below 3 kW

3 kW to <10 kW

10 kW and Above

Market segment by Application

AI Servers and GPU Racks

Cloud and Hyperscale Data Centers

Enterprise Servers and Storage Systems

Telecom and Network Equipment

Edge Computing Systems

Industrial Computing and Control Equipment

Others

Major players covered

Advanced Energy Solution Holding (AES-KY)

Simplo Technology

Dynapack International Technology

LITEON Technology

STL Technology

Sysgration

Highpower Technology

Panasonic Energy

SAMSUNG SDI

LG Energy Solution

FSP Technology

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe Lithium-ion Battery Backup Unit Module product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Lithium-ion Battery Backup Unit Module, with price, sales quantity, revenue, and global market share of Lithium-ion Battery Backup Unit Module from 2021 to 2026.

Chapter 3, the Lithium-ion Battery Backup Unit Module competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Lithium-ion Battery Backup Unit Module breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Lithium-ion Battery Backup Unit Module market forecast, by regions, by

Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Lithium-ion Battery Backup Unit Module.

Chapter 14 and 15, to describe Lithium-ion Battery Backup Unit Module sales channel, distributors, customers, research findings and conclusion.

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