

Global Lithium Battery Fire Suppression System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Lithium Battery Fire Suppression System market size is expected to reach \$ 2655 million by 2032, rising at a market growth of 10.4% CAGR during the forecast period (2026-2032).

Lithium Battery Fire Suppression System refers to fire detection, suppression, cooling, isolation, and emergency control systems designed for lithium-ion batteries, lithium iron phosphate batteries, sodium-ion battery systems, battery energy storage systems, electric vehicle battery packs, battery charging areas, battery warehouses, and battery manufacturing or testing facilities. These systems are used to detect early thermal runaway signals, suppress open flames, reduce heat release, limit re-ignition, control off-gas hazards, and prevent fire propagation between cells, modules, racks, cabinets, or containers. In this report, the market mainly includes aerosol fire suppression systems, water mist systems, clean agent systems, liquid cooling suppression systems, foam and encapsulating agent systems, battery pack fire suppression systems, BESS container fire suppression systems, cabinet-level fire suppression systems, gas detection and suppression linkage systems, and integrated lithium battery fire protection solutions. The 2025 benchmark ASP is US\$1,850 / set, shipment volume is 730k sets, and average gross margin is 39%. The upstream industry chain includes fire extinguishing agents, aerosol generators, nozzles, cylinders, valves, pumps, pipes, pressure sensors, temperature sensors, smoke detectors, gas sensors, control panels, alarm devices, flame detectors, thermal cameras, enclosures, battery safety algorithms, and fire-resistant materials. The midstream includes system design, agent selection, detection module integration, suppression module assembly, control logic development, enclosure adaptation, thermal runaway testing, discharge testing, alarm linkage testing, fire safety certification, and project installation. The downstream includes battery energy storage systems, electric vehicles, battery swapping stations, charging stations, lithium

battery factories, battery warehouses, data centers with battery backup, industrial power systems, marine battery systems, and renewable energy projects.

Lithium battery fire suppression systems are becoming more important as battery energy storage, electric vehicles, charging infrastructure, and battery manufacturing facilities expand. Lithium battery fire risks are closely related to thermal runaway, off-gas release, re-ignition, heat propagation, and enclosed-space explosion hazards, so traditional fire protection methods are often combined with early detection, cooling, suppression, ventilation, and system-level emergency control. Demand is supported by larger BESS installations, higher battery energy density, stricter fire safety requirements, insurance pressure, battery warehouse safety management, and lessons from lithium battery fire incidents. Product development is moving toward earlier gas detection, cabinet-level suppression, module-level cooling, aerosol and water mist combinations, clean agent alternatives, thermal runaway propagation control, remote monitoring, and integrated detection-suppression platforms for energy storage and mobility applications.

This report studies the global Lithium Battery Fire Suppression System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Lithium Battery Fire Suppression System 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 Battery Fire Suppression System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Lithium Battery Fire Suppression System total production and demand, 2021-2032, (K Units)

Global Lithium Battery Fire Suppression System total production value, 2021-2032, (USD Million)

Global Lithium Battery Fire Suppression System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Lithium Battery Fire Suppression System consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Lithium Battery Fire Suppression System domestic production, consumption, key domestic manufacturers and share

Global Lithium Battery Fire Suppression System production by manufacturer,

production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Lithium Battery Fire Suppression System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Lithium Battery Fire Suppression System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Lithium Battery Fire Suppression System 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 Fireaway / Stat-X, Fike, Siemens, Johnson Controls / ANSUL, Marioff, FirePro, Minimax, RAYLASE, Hubei Jiandun Fire Technology, Hangzhou PRI-SAFETY Fire Technology, 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 Battery Fire Suppression System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) 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 Battery Fire Suppression System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Lithium Battery Fire Suppression System Market, Segmentation by Type:

Temperature Detection System

Smoke Detection System

Gas Detection System

Flame Detection System

Thermal Imaging Detection System

Global Lithium Battery Fire Suppression System Market, Segmentation by Protection Level:

Pack-Level Fire Suppression System

Cabinet-Level Fire Suppression System

Container-Level Fire Suppression System

Global Lithium Battery Fire Suppression System Market, Segmentation by Extinguishing Agent:

Gas-Based Agents (Inert Gases, CO₂)

Water Mist Systems

Aerosol-Based Suppressants

Perfluorohexanone (FK-5-1-12)

Heptafluoropropane (FM-200)

Gel / Aerosol Formulations

Global Lithium Battery Fire Suppression System Market, Segmentation by Application:

Battery Energy Storage

Electric Vehicles

Charging and Swapping Infrastructure

Others

Companies Profiled:

Fireaway / Stat-X

Fike

Siemens

Johnson Controls / ANSUL

Marioff

FirePro

Minimax

RAYLASE

Hubei Jiandun Fire Technology

Hangzhou PRI-SAFETY Fire Technology

Shenzhen S-Fire Technology

Xingjin Fire Equipment

Dafo Vehicle Fire Protection

Fogmaker

Reacton Fire Suppression

Key Questions Answered:

1. How big is the global Lithium Battery Fire Suppression System market?
2. What is the demand of the global Lithium Battery Fire Suppression System market?
3. What is the year over year growth of the global Lithium Battery Fire Suppression System market?
4. What is the production and production value of the global Lithium Battery Fire Suppression System market?
5. Who are the key producers in the global Lithium Battery Fire Suppression System market?
6. What are the growth factors driving the market demand?

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