

Global Battery Energy Storage Liquid Cooling Plate Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Battery Energy Storage Liquid Cooling Plate market size is expected to reach \$ 5584 million by 2032, rising at a market growth of 22.3% CAGR during the forecast period (2026-2032).

In 2025, global Battery Energy Storage Liquid Cooling Plate production reached approximately 28.70 million units, with an average global market price of around USD 46 per unit.

The gross profit margin of major companies in the industry is between 18.64%-34.76%.

In 2025, the global production capacity of Battery Energy Storage Liquid Cooling Plate was approximately 37.76 million units.

Battery Energy Storage Liquid Cooling Plate is a thermal management component installed in battery energy storage systems to transfer heat from battery cells or modules to circulating coolant. It helps control temperature uniformity, improve battery safety, extend cycle life and support high-power charge-discharge operation. The product is used in utility-scale storage containers, commercial energy storage cabinets, grid-side storage, renewable energy storage and industrial backup power systems. The market includes aluminum or composite liquid cooling plates for energy storage batteries, but excludes complete battery packs, coolant distribution units and vehicle-only cooling plates.

The industry chain includes aluminum plates, copper parts, composite materials, brazing materials, sealants, coolant channels, stamping parts, welding consumables, surface treatment chemicals and leak testing equipment. Midstream production covers

flow channel design, stamping or extrusion, brazing or friction stir welding, machining, sealing, pressure testing, leak testing and thermal performance validation. Downstream demand comes from energy storage battery modules, containerized storage systems, grid storage, renewable power stations, commercial storage cabinets and industrial backup power. Growth is driven by larger energy storage installations, battery safety requirements, liquid cooling adoption and high-cycle operation needs.

This report studies the global Battery Energy Storage Liquid Cooling Plate production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Battery Energy Storage Liquid Cooling Plate 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 Battery Energy Storage Liquid Cooling Plate that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Battery Energy Storage Liquid Cooling Plate total production and demand, 2021-2032, (K Units)

Global Battery Energy Storage Liquid Cooling Plate total production value, 2021-2032, (USD Million)

Global Battery Energy Storage Liquid Cooling Plate production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Battery Energy Storage Liquid Cooling Plate consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Battery Energy Storage Liquid Cooling Plate domestic production, consumption, key domestic manufacturers and share

Global Battery Energy Storage Liquid Cooling Plate production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Battery Energy Storage Liquid Cooling Plate production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Battery Energy Storage Liquid Cooling Plate production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Battery Energy Storage Liquid Cooling Plate 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 Boyd Corporation, Dana Incorporated, Modine Manufacturing, Laird Performance Materials, Miba Group, Lytron, Sanhua Intelligent Controls, Yonghe Intelligent Control, Zhejiang Silver Wheel, Feirongda, 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 Battery Energy Storage Liquid Cooling Plate 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 Battery Energy Storage Liquid Cooling Plate Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Battery Energy Storage Liquid Cooling Plate Market, Segmentation by Type:

Aluminum Liquid Cooling Plates

Copper Liquid Cooling Plates

Composite Liquid Cooling Plates

Global Battery Energy Storage Liquid Cooling Plate Market, Segmentation by Flow Channel Structure:

Serpentine Channel Plates

Parallel Channel Plates

Microchannel Plates

Global Battery Energy Storage Liquid Cooling Plate Market, Segmentation by Plate Thickness:

Thin Plate??2 mm?

Standard Plate?2.1?4 mm?

Thick Plate??4 mm?

Global Battery Energy Storage Liquid Cooling Plate Market, Segmentation by Application:

Battery Module Cooling

High-Rate Charge and Discharge Thermal Control

Thermal Runaway Risk Reduction

Other

Companies Profiled:

Boyd Corporation

Dana Incorporated

Modine Manufacturing

Laird Performance Materials

Miba Group

Lytron

Sanhua Intelligent Controls

Yonghe Intelligent Control

Zhejiang Silver Wheel

Feirongda

Aavid Thermal Technologies Kunshan

Cooler Master China

Key Questions Answered:

1. How big is the global Battery Energy Storage Liquid Cooling Plate market?
2. What is the demand of the global Battery Energy Storage Liquid Cooling Plate market?
3. What is the year over year growth of the global Battery Energy Storage Liquid Cooling Plate market?
4. What is the production and production value of the global Battery Energy Storage Liquid Cooling Plate market?
5. Who are the key producers in the global Battery Energy Storage Liquid Cooling Plate market?
6. What are the growth factors driving the market demand?

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