

Global Liquid Cooling Plates for C&I Energy Storage Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Liquid Cooling Plates for C&I Energy Storage market size is expected to reach \$ 393 million by 2032, rising at a market growth of 6.5% CAGR during the forecast period (2026-2032).

Liquid Cooling Plates for C&I Energy Storage are heat-exchange components installed in battery packs, modules or racks to transfer heat from cells to coolant channels. They are typically made from aluminum alloys using stamping, brazing, friction stir welding, roll-bonding or extruded flow-channel structures, helping improve temperature uniformity, battery life, safety and system efficiency. In 2025, Global Liquid Cooling Plates for C&I Energy Storage sales are estimated at around 11,000 K Units, with an average ex-works price of about 23 US\$/Unit. The value chain consists of aluminum sheets/extrusions, brazing materials, seals, coolants and welding equipment upstream, liquid cooling plates, cooling manifolds and thermal management module manufacturers midstream, and battery makers, BESS integrators, PCS/cabinet suppliers and C&I project owners downstream.

The key driver is the transition from air cooling to liquid cooling in C&I energy storage. Higher cabinet capacity, larger LFP cells, higher charge-discharge rates and stricter safety requirements make air cooling less sufficient for cell temperature uniformity and lifetime consistency. Liquid cooling plates reduce hot spots, improve thermal balance and support higher system reliability.

This report studies the global Liquid Cooling Plates for C&I Energy Storage production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Liquid

Cooling Plates for C&I Energy Storage 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 Liquid Cooling Plates for C&I Energy Storage that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Liquid Cooling Plates for C&I Energy Storage total production and demand, 2021-2032, (K Units)

Global Liquid Cooling Plates for C&I Energy Storage total production value, 2021-2032, (USD Million)

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

Global Liquid Cooling Plates for C&I Energy Storage consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Liquid Cooling Plates for C&I Energy Storage domestic production, consumption, key domestic manufacturers and share

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

Global Liquid Cooling Plates for C&I Energy Storage production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Liquid Cooling Plates for C&I Energy Storage production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Liquid Cooling Plates for C&I Energy Storage 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, Cotran New Material, Trumony Aluminum, XD Thermal, ToneCooling, Neklar Group, Sanhua Automotive, Feirongda Technology, Renbow New Energy, 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 Liquid Cooling Plates for C&I Energy Storage 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 Liquid Cooling Plates for C&I Energy Storage Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Liquid Cooling Plates for C&I Energy Storage Market, Segmentation by Type:

Stamped Brazed Plate

Roll-Bonded Plate

Others

Global Liquid Cooling Plates for C&I Energy Storage Market, Segmentation by Cooling Architecture:

Aluminum Alloy Plate

Copper/Aluminum Composite

Others

Global Liquid Cooling Plates for C&I Energy Storage Market, Segmentation by Material Type:

Aluminum Alloy Plate

Copper/Aluminum Composite

Others

Global Liquid Cooling Plates for C&I Energy Storage Market, Segmentation by Application:

Industrial Energy Storage

Commercial Energy Storage

Companies Profiled:

Boyd

Cotran New Material

Trumony Aluminum

XD Thermal

ToneCooling

Neklar Group

Sanhua Automotive

Feirongda Technology

Renbow New Energy

Key Questions Answered:

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

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