

Global Thermal Battery Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Thermal Battery market size is expected to reach \$ 3353 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

In 2025, global Thermal Battery output reaches 520 thousand units, with an average selling price of 4200 USD per unit, total production capacity of 680 thousand units, and a gross margin of 36%.

A Thermal Battery is a type of primary high-temperature electrochemical battery that remains inert at ambient temperature and becomes activated only when an internal heat source ignites and melts the electrolyte. These batteries typically use lithium-alloy anodes such as Li-Si or Li-Al, metal sulfide cathodes such as FeS₂ or CoS₂, and molten salt electrolytes like LiCl-KCl. Due to their long shelf life, high power density, and reliable performance under extreme environments including shock, vibration and temperature variation, thermal batteries are widely used in missiles, torpedoes, spacecraft and other military systems.

The thermal battery market is mainly driven by defense and aerospace demand, particularly in missile guidance systems, precision-guided weapons and launch platforms. As global military modernization and precision strike capabilities continue to expand, the demand for highly reliable one-time power sources is increasing steadily. Meanwhile, the development of next-generation missile systems, miniaturized weapon platforms and advanced unmanned systems is also driving thermal batteries toward higher power density and smaller size.

This report studies the global Thermal Battery production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Thermal Battery total production and demand, 2021-2032, (K Units)

Global Thermal Battery total production value, 2021-2032, (USD Million)

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

Global Thermal Battery consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Thermal Battery domestic production, consumption, key domestic manufacturers and share

Global Thermal Battery production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Thermal Battery production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Thermal Battery production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Thermal Battery 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 EaglePicher, Advanced Thermal Batteries, Vitzrocell, Diehl Energy Products, EaglePicher Technologies, EnerSys, SINOEV Technologies, T?BiTAK, Wuhan JOHO Technology, RAFAEL Advanced Defense Systems, 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 Thermal Battery 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 Thermal Battery Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Thermal Battery Market, Segmentation by Type:

Iron Disulfide Type (FeS₂)

Cobalt Disulfide Type (CoS₂)

Global Thermal Battery Market, Segmentation by Anode Material:

Lithium-Silicon Alloy Type (Li-Si)

Lithium-Aluminum Alloy Type (Li-Al)

Global Thermal Battery Market, Segmentation by Structural Design:

Stacked Type

Cylindrical Type

Global Thermal Battery Market, Segmentation by Application:

Military

Civil

Companies Profiled:

EaglePicher

Advanced Thermal Batteries

Vitzrocell

Diehl Energy Products

EaglePicher Technologies

EnerSys

SINOEV Technologies

T?BiTAK

Wuhan JOHO Technology

RAFAEL Advanced Defense Systems

HBL Power Systems

Key Questions Answered:

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

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