

Global Immersion Battery Pack Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Immersion Battery Pack market size is expected to reach \$ 264 million by 2032, rising at a market growth of 9.1% CAGR during the forecast period (2026-2032).

An immersion battery pack is a battery system in which battery modules, cells, or the entire system are directly submerged in an electrically insulating, non-conductive coolant (such as fluorinated fluids, synthetic hydrocarbons, or esters). Heat exchange occurs through direct contact between the coolant and the battery surfaces, enabling efficient heat dissipation and balanced thermal management.

The upstream segment of the industry chain primarily comprises suppliers of lithium-ion cells (e.g., LFP, ternary lithium), battery management systems (BMS), battery enclosure materials, sealing materials, circulation pumps, heat exchangers, and dielectric coolants (e.g., fluorinated fluids, synthetic hydrocarbons, esters). The midstream segment consists of manufacturers of immersion battery packs and thermal management systems; these companies integrate battery systems, design coolant circulation loops, implement thermal management controls and safety protection technologies, and submerge cells directly into insulating coolant to assemble the complete battery pack. Downstream applications primarily include new energy vehicles, energy storage systems (ESS), and uninterruptible power supplies (UPS).

In 2025, global sales volume for immersion battery packs is projected to reach 1,450 MW, with a production capacity of approximately 2,070 MW; the average selling price is estimated at \$96.5/KW, and the average gross margin ranges from 20% to 30%.

Policies supporting the global new energy vehicle and energy storage industries continue to drive the development of advanced thermal management technologies.

While Europe and the United States prioritize high-safety energy storage systems and high-power electrified equipment, China fosters technological innovation through policies targeting new energy vehicles, energy storage, and the development of new power systems. In recent years, collaboration among coolant manufacturers, battery companies, and vehicle OEMs has intensified, leading to the implementation of numerous demonstration projects for immersion battery systems. As safety standards for energy storage become increasingly stringent and the demand for fast charging grows, immersion cooling technology is attracting significant attention across the industry.

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

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

Highlights and key features of the study

Global Immersion Battery Pack total production and demand, 2021-2032, (MW)

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

Global Immersion Battery Pack production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (MW), (based on production site)

Global Immersion Battery Pack consumption by region & country, CAGR, 2021-2032 & (MW)

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

Global Immersion Battery Pack production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (MW)

Global Immersion Battery Pack production by Type, production, value, CAGR, 2021-2032, (USD Million) & (MW)

Global Immersion Battery Pack production by Application, production, value, CAGR, 2021-2032, (USD Million) & (MW)

This report profiles key players in the global Immersion Battery Pack 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 XING Mobility, Ricardo, Kreisel Electric, Exoes,

WATTALPS, Hongying Intelligent, BYD, EVE Energy, Lingxiao Energy, Shanghai Cairi 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 Immersion Battery Pack market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (MW) and average price (US\$/KW) 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 Immersion Battery Pack Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Immersion Battery Pack Market, Segmentation by Type:

Single-Phase Immersion

Two-Phase Immersion

Global Immersion Battery Pack Market, Segmentation by Battery Capacity:

40-50kWh

?50kWh

Global Immersion Battery Pack Market, Segmentation by Coolant:

Fluorinated Fluids

Silicone Oils

Others

Global Immersion Battery Pack Market, Segmentation by Application:

New Energy Vehicles

Energy Storage Systems

Uninterruptible Power Supplies (UPS)

Others

Companies Profiled:

XING Mobility

Ricardo

Kreisel Electric

Exoes

WATTALPS

Hongying Intelligent

BYD

EVE Energy

Lingxiao Energy

Shanghai Cairi Energy

Kechuang Energy Storage

Guanjia New Energy

Valeo

TotalEnergies

Wuhan Ruikemei

Haixi Communications

Key Questions Answered:

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

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