

Global Immersion Liquid-Cooled All-in-One Units Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Immersion Liquid-Cooled All-in-One Units market size is expected to reach \$ 546 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

The immersion liquid-cooled all-in-one unit employs advanced direct immersion liquid cooling technology, vertically and fully submerging equipment in a dielectric coolant. This ensures rapid, direct heat transfer from the equipment to the coolant, which then circulates the heat to a plate heat exchanger for dissipation, effectively maintaining stable and efficient equipment operation. Through the deep integration of compact liquid cooling cabinets, enterprise cloud services, and hardware resource management platforms, users can easily establish on-site data centers equipped with enterprise cloud capabilities.

In 2025, global sales of immersion liquid-cooled all-in-one unitss reached 7,600 units, with a production capacity of approximately 11,000 units; the average selling price was \$46,000 per unit, and the average gross margin ranged from 20% to 30%.

The upstream supply chain primarily includes suppliers of lithium-ion cells (predominantly LFP), battery management systems (BMS), power conversion systems (PCS), energy management systems (EMS), dielectric coolants (such as fluorinated fluids, synthetic hydrocarbons, and ester-based dielectric fluids), sealing materials, tank structural components, and circulation and heat exchange systems (pumps, heat exchangers, etc.). The midstream sector consists of manufacturers and system integrators that produce cabinet-style or containerized integrated energy storage products by directly submerging battery modules or cells in dielectric coolant and incorporating thermal management designs, safety control systems, and energy storage

electrical systems. Downstream applications primarily span sectors such as data centers, artificial intelligence, industrial manufacturing, and new energy.

The continuous upgrading of global safety standards for energy storage is a key driver behind the development of immersion cooling technology. China is intensifying its efforts regarding advanced energy storage, power system flexibility, and safety standards, while promoting pilot projects for high-safety storage technologies; meanwhile, Europe and the United States are tightening regulatory requirements for grid-scale storage safety and data center power reliability, indirectly boosting demand for high-safety thermal management solutions. In recent years, various companies have begun advancing demonstration projects for immersion-cooled energy storage; however, these efforts remain largely focused on small-scale pilots and engineering validation, and the sector has not yet reached the stage of large-scale, standardized procurement.

This report studies the global Immersion Liquid-Cooled All-in-One Units production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Immersion Liquid-Cooled All-in-One Units 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 Liquid-Cooled All-in-One Units that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Immersion Liquid-Cooled All-in-One Units total production and demand, 2021-2032, (Units)

Global Immersion Liquid-Cooled All-in-One Units total production value, 2021-2032, (USD Million)

Global Immersion Liquid-Cooled All-in-One Units production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Immersion Liquid-Cooled All-in-One Units consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Immersion Liquid-Cooled All-in-One Units domestic production, consumption, key domestic manufacturers and share

Global Immersion Liquid-Cooled All-in-One Units production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Immersion Liquid-Cooled All-in-One Units production by Type, production, value,

CAGR, 2021-2032, (USD Million) & (Units)

Global Immersion Liquid-Cooled All-in-One Units production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Immersion Liquid-Cooled All-in-One Units 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 Supermicro, Envicool, Hec Technology, KeenCool, Kechuang Energy Storage, Longtech Smart, Fujitsu, Gaotai Haoneng, Hengtong Optic-Electric, Hongying 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 Immersion Liquid-Cooled All-in-One Units market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 Immersion Liquid-Cooled All-in-One Units Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Immersion Liquid-Cooled All-in-One Units Market, Segmentation by Type:

Single-Phase Immersion Liquid Cooling

Two-Phase Immersion Liquid Cooling

Global Immersion Liquid-Cooled All-in-One Units Market, Segmentation by Structure:

Cabinet-Type

Container-Type

Global Immersion Liquid-Cooled All-in-One Units Market, Segmentation by Power:

?20 kW

20?50 kW

?50 kW

Global Immersion Liquid-Cooled All-in-One Units Market, Segmentation by Application:

Data Centers

Artificial Intelligence

Industrial Manufacturing

New Energy

Others

Companies Profiled:

Supermicro

Envicool

Hec Technology

KeenCool

Kechuang Energy Storage

Longtech Smart

Fujitsu

Gaotai Haoneng

Hengtong Optic-Electric

Hongying New Energy

Sugon Data Solutions

Haiwu

Araner

AMAX

Aspsys

Asperitas

Key Questions Answered:

1. How big is the global Immersion Liquid-Cooled All-in-One Units market?

2. What is the demand of the global Immersion Liquid-Cooled All-in-One Units market?
3. What is the year over year growth of the global Immersion Liquid-Cooled All-in-One Units market?
4. What is the production and production value of the global Immersion Liquid-Cooled All-in-One Units market?
5. Who are the key producers in the global Immersion Liquid-Cooled All-in-One Units market?
6. What are the growth factors driving the market demand?

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