

Global Immersion Liquid-Cooled All-in-One Units Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Immersion Liquid-Cooled All-in-One Units market size was valued at US\$ 360 million in 2025 and is forecast to a readjusted size of US\$ 546 million by 2032 with a CAGR of 6.2% during review period.

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 is a detailed and comprehensive analysis for global Immersion Liquid-Cooled All-in-One Units market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Immersion Liquid-Cooled All-in-One Units market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Immersion Liquid-Cooled All-in-One Units market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Immersion Liquid-Cooled All-in-One Units market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Immersion Liquid-Cooled All-in-One Units market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Immersion Liquid-Cooled All-in-One Units

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Immersion Liquid-Cooled All-in-One Units market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Immersion Liquid-Cooled All-in-One Units market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Single-Phase Immersion Liquid Cooling

Two-Phase Immersion Liquid Cooling

Market segment by Structure

Cabinet-Type

Container-Type

Market segment by Power

?20 kW

20?50 kW

?50 kW

Market segment by Application

Data Centers

Artificial Intelligence

Industrial Manufacturing

New Energy

Others

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Immersion Liquid-Cooled All-in-One Units product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Immersion Liquid-Cooled All-in-One Units, with price, sales quantity, revenue, and global market share of Immersion Liquid-Cooled All-in-One Units from 2021 to 2026.

Chapter 3, the Immersion Liquid-Cooled All-in-One Units competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Immersion Liquid-Cooled All-in-One Units breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Immersion Liquid-Cooled All-in-One Units market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Immersion Liquid-Cooled All-in-One Units.

Chapter 14 and 15, to describe Immersion Liquid-Cooled All-in-One Units sales channel, distributors, customers, research findings and conclusion.

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