

Global Ultra-Fast Charging Liquid-Cooling Pump 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 Ultra-Fast Charging Liquid-Cooling Pump market size was valued at US\$ 26.62 million in 2025 and is forecast to a readjusted size of US\$ 107 million by 2032 with a CAGR of 23.0% during review period.

Ultra-Fast Charging Liquid-Cooling Pump (Supercharger Liquid Cooling Pump): Designed for 800V/1000V high-voltage platforms and 350kW-1500kW superchargers, this pump circulates media such as ethylene glycol solutions, fluorinated fluids, and silicone oil through ultra-long, ultra-thin charging cables (5-10 meters) to ensure stable control of the nozzle, cable, and power module temperatures below 50°C, meeting automotive-grade requirements for 24/7 continuous operation, zero leakage, wide temperature range, and long service life.

Global sales of liquid-cooling pumps for supercharging stations are projected to reach 153,990 units in 2025, with an average price of \$168 per unit.

Key Influencing Factors

Technology Drivers (Core)

Heat flux density limit: 600A+ current, long and thin gun cables ? Air cooling fails, liquid cooling becomes essential

High resistance in long pipelines: 5-10-meter gun cables ? High-pressure differential pumps required (4-10 bar)

Automotive-grade reliability: 24/7 outdoor operation, 30,000 hours maintenance-free, zero leakage

Cost and Supply Chain

Core materials: Rare earth permanent magnets, PEEK, specialty ceramics?price volatility

Manufacturing barriers: Precision gear machining, magnetic seal assembly, airtightness testing (high equipment investment)

Economies of Scale: Deployment of millions of ultra-fast charging stations ? Pump unit price reduction of 50%+

Policies and Standards

New National Standard: GB/T 20234.1-2024 Mandatory Standard for Ultra-Fast Charging Liquid Cooling Systems

Dual Carbon Goals: Liquid cooling saves 30%+ energy compared to air cooling; PUE metrics for data centers and charging stations

Safety: Zero leakage, explosion-proof, EMC (electromagnetic compatibility), high-voltage insulation

Market Competition

Technology Rivalry: Magnetic gear pumps (dedicated to charging guns, high pressure differential) vs. centrifugal pumps (module cooling, high flow rate)

Customer Barriers: Certification cycles of 1?2 years for leading ultra-fast charging manufacturers (Huawei, BYD, Teld)

This report is a detailed and comprehensive analysis for global Ultra-Fast Charging Liquid-Cooling Pump 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 Ultra-Fast Charging Liquid-Cooling Pump market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Ultra-Fast Charging Liquid-Cooling Pump market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Ultra-Fast Charging Liquid-Cooling Pump market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Ultra-Fast Charging Liquid-Cooling Pump market shares of main players, shipments in revenue (\$ Million), sales quantity (K 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 Ultra-Fast Charging Liquid-Cooling Pump
- 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 Ultra-Fast Charging Liquid-Cooling Pump 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 Johnson Electric, Parker Hannifin, KNF, Fluid-o-Tech, SCHERZINGER, AVS Romer, Feilong Auto Components, TOPSFLO, JONSN, LEFOO, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Ultra-Fast Charging Liquid-Cooling Pump 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

350 kW Standard Liquid-Cooled Pumps for Supercharging

600 kW High-Pressure Liquid-Cooled Pumps

1000 kW Megawatt-Class Liquid-Cooled Pumps

1500 kW+ Ultra-High-Pressure Liquid-Cooled Pumps

Market segment by Technical Principle

Magnetically Driven Gear Pumps

Brushless Permanent Magnet Centrifugal Pumps

Maglev / Hydrodynamic Micro Pumps

Piezoelectric Micro Pumps

Market segment by Sales Channels

Direct Sales

Distribution

Market segment by Application

Liquid-Cooled Charging Guns/Cables

Power Module Liquid Cooling

Built-in Pumps in CDU/Cooling Units

Others

Major players covered

Johnson Electric

Parker Hannifin

KNF

Fluid-o-Tech

SCHERZINGER

AVS Romer

Feilong Auto Components

TOPSFLO

JONSN

LEFOO

Dongguan Shenpeng

S-Fluid

WSF Technology

J-Tron Technologies

VOVYO Technology

THERMO (Xiamen) Intelligent Technology

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 Ultra-Fast Charging Liquid-Cooling Pump product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Ultra-Fast Charging Liquid-Cooling Pump, with price, sales quantity, revenue, and global market share of Ultra-Fast Charging Liquid-Cooling Pump from 2021 to 2026.

Chapter 3, the Ultra-Fast Charging Liquid-Cooling Pump competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Ultra-Fast Charging Liquid-Cooling Pump 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 Ultra-Fast Charging Liquid-Cooling Pump 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 Ultra-Fast Charging Liquid-Cooling Pump.

Chapter 14 and 15, to describe Ultra-Fast Charging Liquid-Cooling Pump sales channel, distributors, customers, research findings and conclusion.

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