

Global Ultra-Fast Charging Liquid-Cooling Pump Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Ultra-Fast Charging Liquid-Cooling Pump market size is expected to reach \$ 107 million by 2032, rising at a market growth of 23.0% CAGR during the forecast period (2026-2032).

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 studies the global Ultra-Fast Charging Liquid-Cooling Pump production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Ultra-Fast Charging Liquid-Cooling Pump 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 Ultra-Fast Charging Liquid-Cooling Pump that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Ultra-Fast Charging Liquid-Cooling Pump total production and demand, 2021-2032, (K Units)

Global Ultra-Fast Charging Liquid-Cooling Pump total production value, 2021-2032, (USD Million)

Global Ultra-Fast Charging Liquid-Cooling Pump production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Ultra-Fast Charging Liquid-Cooling Pump consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Ultra-Fast Charging Liquid-Cooling Pump domestic production, consumption, key domestic manufacturers and share

Global Ultra-Fast Charging Liquid-Cooling Pump production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Ultra-Fast Charging Liquid-Cooling Pump production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Ultra-Fast Charging Liquid-Cooling Pump production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Ultra-Fast Charging Liquid-Cooling Pump 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Ultra-Fast Charging Liquid-Cooling Pump 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 Ultra-Fast Charging Liquid-Cooling Pump Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Ultra-Fast Charging Liquid-Cooling Pump Market, Segmentation 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

Global Ultra-Fast Charging Liquid-Cooling Pump Market, Segmentation by Technical Principle:

Magnetically Driven Gear Pumps

Brushless Permanent Magnet Centrifugal Pumps

Maglev / Hydrodynamic Micro Pumps

Piezoelectric Micro Pumps

Global Ultra-Fast Charging Liquid-Cooling Pump Market, Segmentation by Sales Channels:

Direct Sales

Distribution

Global Ultra-Fast Charging Liquid-Cooling Pump Market, Segmentation by Application:

Liquid-Cooled Charging Guns/Cables

Power Module Liquid Cooling

Built-in Pumps in CDU/Cooling Units

Others

Companies Profiled:

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

Key Questions Answered:

1. How big is the global Ultra-Fast Charging Liquid-Cooling Pump market?
2. What is the demand of the global Ultra-Fast Charging Liquid-Cooling Pump market?
3. What is the year over year growth of the global Ultra-Fast Charging Liquid-Cooling Pump market?
4. What is the production and production value of the global Ultra-Fast Charging Liquid-Cooling Pump market?
5. Who are the key producers in the global Ultra-Fast Charging Liquid-Cooling Pump market?
6. What are the growth factors driving the market demand?

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