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Global Liquid Cooled DC Charging Pile Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Liquid Cooled DC Charging Pile market size is expected to reach $ 41715 million by 2032, rising at a market growth of 36.3% CAGR during the forecast period (2026-2032).
A Liquid Cooled DC Charging Pile is a DC electric vehicle supply equipment (EVSE) that uses liquid-cooling (most commonly in the charging connector and cable, sometimes also in the cabinet) to control temperature rise while delivering high current for fast charging.
Upstream, the supply chain splits into power electronics and thermal management. The power stage includes AC/DC and DC/DC conversion modules, magnetics, high-voltage capacitors, contactors, metering, insulation monitoring, and controls/HMI; the thermal side includes pumps, heat exchangers, hoses/quick couplers, sensors, coolant, and (often) dedicated cooling subsystems for HPC cables.
Downstream, liquid-cooled DC chargers are deployed in high-utilization and high-throughput scenarios?highway hubs, urban ultra-fast sites, and fleet depots?where uptime and sustained performance matter.
In 2025, global sales of Liquid Cooled DC Charging Pile reached approximately 31 K units, with an average global market price of around US$ 151 K/unit. Production capacity varies significantly among manufacturers, with gross profit margins ranging from approximately 25% to 45%.
Demand for liquid-cooled DC fast chargers is ultimately driven by the industry?s push to make charging feel closer to conventional refuelling. As vehicle platforms migrate toward higher-voltage architectures and higher charging currents, charging equipment must increase power density while keeping cables manageable and thermal limits under control. Liquid-cooled cable and connector systems help address overheating risks and the practical constraints of bulky conductors, making them especially attractive for highway corridors, urban hubs, and other high-throughput locations where turnaround

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time is critical.

On the supply side, liquid-cooled high-power chargers are increasingly bundled with modular power electronics, smarter controls, and integrated operations platforms. Vendors compete on uptime, maintainability, and lifecycle cost through redundancy, dynamic power sharing, robust thermal monitoring, and predictive service capabilities. Meanwhile, operators are shifting from ?hardware deployment? toward ?energy delivery with guaranteed availability,? raising the bar for reliability, remote diagnostics, and service networks. Going forward, competition is likely to move beyond headline power ratings toward grid-friendly design, peak management, site-level energy orchestration, and seamless interoperability?areas where end-to-end engineering and operations capability will matter as much as the charger itself.

This report studies the global Liquid Cooled DC Charging Pile production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Liquid Cooled DC Charging Pile 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 Liquid Cooled DC Charging Pile that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Liquid Cooled DC Charging Pile total production and demand, 2021-2032, (Units)

Global Liquid Cooled DC Charging Pile total production value, 2021-2032, (USD Million)

Global Liquid Cooled DC Charging Pile production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Liquid Cooled DC Charging Pile consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Liquid Cooled DC Charging Pile domestic production, consumption, key domestic manufacturers and share

Global Liquid Cooled DC Charging Pile production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Liquid Cooled DC Charging Pile production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Liquid Cooled DC Charging Pile production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Liquid Cooled DC Charging Pile 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 Tesla, ABB, Siemens, Kempower, Alpitronic, Chargepoint, SK Signet, Tritium, BorgWarner, Huawei, etc.

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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 Liquid Cooled DC Charging Pile market
Detailed Segmentation:
Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Units) and average price (K 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 Liquid Cooled DC Charging Pile Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Liquid Cooled DC Charging Pile Market, Segmentation by Type:

Water-Glycol Liquid Cooling

Dielectric Liquid Cooling

Other

Global Liquid Cooled DC Charging Pile Market, Segmentation by Maximum DC Output

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Voltage:

?800V

?800V

Global Liquid Cooled DC Charging Pile Market, Segmentation by Charger Architecture:

All-in-one Integrated Charger

Split Charger

Global Liquid Cooled DC Charging Pile Market, Segmentation by Application:

Expressway Service Area

Shopping Center

Parking Lot

Other

Companies Profiled:

Tesla

ABB

Siemens

Kempower

Alpitronic

Chargepoint

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SK Signet

Tritium

BorgWarner

Huawei

VREMT

GAC Energy

StarCharge

Infypower

Key Questions Answered:

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

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