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

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## Abstracts

The global High Power Liquid Cooled DC Charging Pile market size is expected to reach $ 25490 million by 2032, rising at a market growth of 34.8% CAGR during the forecast period (2026-2032).
A High Power Liquid Cooled DC Charging Pile is a DC EV supply equipment (EVSE) designed for high-power, high-current fast charging (typically hundreds of kW and above), where liquid cooling is used?most commonly inside the charging connector and cable?to keep temperatures within safe limits while delivering sustained high current.
Upstream, the core bill of materials is split between power electronics and thermal management. The power stage includes AC/DC and DC/DC conversion (power modules), magnetics, capacitors, contactors, metering, insulation monitoring, and control/HMI; the cooling side includes pumps, heat exchangers, hoses/quick couplings, sensors, coolant, and (often) dedicated HPC cooling units.
Downstream, these chargers are deployed in high-utilization scenarios such as highway hubs, urban ultra-fast sites, and fleet depots, where throughput and uptime justify higher capex and grid capacity.
In 2025, global sales of High Power Liquid Cooled DC Charging Pile reached approximately 18 K units, with an average global market price of around US$ 165 K/unit. Production capacity varies significantly among manufacturers, with gross profit margins ranging from approximately 30% to 45%.
High power liquid cooled DC charging piles are gaining share because they solve three problems at once: sustained high-current delivery, thermal safety, and real-world usability. As vehicle platforms move toward higher-voltage architectures and faster charging acceptance, charging operators need equipment that can deliver more energy in a short dwell time without derating. Liquid-cooled connectors and cables address the heat and handling challenges that come with high current, enabling slimmer, lighter assemblies and more stable performance, which in turn improves uptime and customer

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experience.

Demand typically concentrates in high-utilization locations such as corridor hubs, urban ultra-fast sites, and fleet depots where time and throughput matter most. On the supply side, product roadmaps are converging on modular power electronics, split architectures with centralized power cabinets and dispensers, and deeper integration with energy management for load control and operational efficiency. Interoperability and compliance are becoming decisive differentiators: vehicle-to-charger communication, charger-to-backend protocols, metering, safety certification, and remote diagnostics determine whether a product can be widely deployed across operator networks.

Even as equipment costs trend downward with scaling and supply-chain learning, project rollout is still constrained by grid capacity, connection lead times, and site permitting. This naturally drives a phased deployment pattern: operators prioritize sites with favorable grid access and strong utilization economics, validate reliability and service workflows, and then replicate standardized designs across broader networks.

This report studies the global High Power 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 High Power 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 High Power Liquid Cooled DC Charging Pile that contribute to its increasing demand across many markets.

**Highlights and key features of the study**

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

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

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

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

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

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

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

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

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This report profiles key players in the global High Power 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, BorgWarner, Huawei, VREMT, GAC 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 High Power 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 (US$/K 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 High Power Liquid Cooled DC Charging Pile Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

?360kW

?360kW

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Global High Power Liquid Cooled DC Charging Pile Market, Segmentation by Maximum DC Output Voltage:

?800V

?800V

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

All-in-one Integrated Charger

Split Charger

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

Expressway Service Area

Shopping Center

Parking Lot

Other

**Companies Profiled:**

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ABB

Siemens

Kempower

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Alpitronic

Chargepoint

BorgWarner

Huawei

VREMT

GAC Energy

StarCharge

Infypower

Xuji Group

**Key Questions Answered:**

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

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# Contents

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# List Of Tables

## LIST OF TABLES

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# List Of Figures

## LIST OF FIGURES

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Figure 66. Research Process and Data Source

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