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# Global Liquid-cooled Megawatt Supercharging Station Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Liquid-cooled Megawatt Supercharging Station market size is expected to reach $ 2102 million by 2032, rising at a market growth of 25.9% CAGR during the forecast period (2026-2032).

A liquid-cooled megawatt supercharging station is an advanced electric vehicle charging facility designed for ultra-high-speed charging applications, utilizing liquid cooling technology to regulate the temperature of both the charger and the charging gun, ensuring stable and safe high-power output. This product addresses the overheating issues encountered by traditional air-cooled chargers during megawatt-level charging, improving charging efficiency, reducing charging time, and extending equipment lifespan. The history of liquid-cooled megawatt supercharging stations is linked to the rapid growth of electric vehicles and the adoption of long-range models, initially applied in high-power DC fast chargers and progressively optimized with advancements in energy storage systems, power electronic devices, and high-performance insulation materials. Upstream raw materials include high-thermal-conductivity cooling tubes, power electronic semiconductors (IGBT, SiC MOSFET), advanced insulating materials, liquid cooling pumps, and control modules, with component suppliers spanning semiconductor manufacturers, electrical control system providers, and precision machinery manufacturers.In 2025, the global production capacity of liquid-cooled Megawatt Supercharging Stations reached 8,000 units, with sales totaling 6,847 units. The average selling price was USD 62,260 per unit, and the industry gross margin ranged between 30% and 40%.

The market for liquid-cooled megawatt supercharging stations is currently in a phase of rapid expansion, driven by the growing need for ultra-fast charging among heavy-duty EVs, high?range passenger vehicles, and other large electric platforms. Conventional

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AC and lower?power DC charging solutions increasingly fall short of user expectations for speed and reliability, elevating interest in liquid-cooled systems for their superior thermal management, high power density, and sustained performance. This evolving market brings together traditional charging infrastructure manufacturers, new energy vehicle OEMs, energy service providers, and power system integrators, all advancing R&D and commercialization efforts. A nascent industrial ecosystem is emerging around key technologies such as liquid cooling loops, modular power electronics, and intelligent energy management, though the absence of fully harmonized standards and interoperability across vendors remains a practical challenge that requires cross?industry coordination to enhance overall maturity.

Looking ahead, liquid-cooled megawatt supercharging stations are poised to become a cornerstone of advanced charging infrastructure. Continued refinement of high?power charging protocols and international standards, coupled with progress in high?performance semiconductor materials, liquid cooling technologies, and smart control systems, will steadily improve performance, reliability, and cost efficiency. These advancements are expected to accelerate deployment at critical nodes such as highway service areas, logistics hubs, and mass transit interchanges, where high?power charging can enable long?haul and heavy?duty electrification. In addition, broader trends such as the energy internet, greater integration of renewable energy, storage dispatch, and vehicle?to?grid coordination will create new avenues for growth, driving the sector toward a more efficient and intelligent energy service ecosystem.

Among the forces propelling this market forward are supportive policies, collaborative innovation across the value chain, strong end?user demand for faster charging experiences, and advancements in EV driving range. Policy frameworks that encourage robust charging networks and green energy utilization provide strategic direction for investment, while cooperative standardization between vehicle and infrastructure sectors fosters upstream?downstream innovation. At the same time, ongoing breakthroughs in liquid cooling and system integration enhance product competitiveness. Nevertheless, challenges remain that could impede broader adoption. Technical obstacles around high?power safety and thermal management, relatively high upfront costs, interoperability hurdles across standards and vendors, and grid infrastructure constraints under localized high?power demand all pose barriers. Addressing these issues through sustained technological development, industry collaboration, and thoughtful policy support will be key to nurturing a healthy, scalable liquid?cooled megawatt supercharging ecosystem.

This report studies the global Liquid-cooled Megawatt Supercharging Station

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production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Liquid-cooled Megawatt Supercharging Station 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 Megawatt Supercharging Station that contribute to its increasing demand across many markets.

**Highlights and key features of the study**
Global Liquid-cooled Megawatt Supercharging Station total production and demand, 2021-2032, (Units)
Global Liquid-cooled Megawatt Supercharging Station total production value, 2021-2032, (USD Million)
Global Liquid-cooled Megawatt Supercharging Station production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)
Global Liquid-cooled Megawatt Supercharging Station consumption by region & country, CAGR, 2021-2032 & (Units)
U.S. VS China: Liquid-cooled Megawatt Supercharging Station domestic production, consumption, key domestic manufacturers and share
Global Liquid-cooled Megawatt Supercharging Station production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)
Global Liquid-cooled Megawatt Supercharging Station production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)
Global Liquid-cooled Megawatt Supercharging Station production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Liquid-cooled Megawatt Supercharging Station 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 BYD, Huawei Digital Power, Kempower, ABB, Siemens, KSTAR, TELD, Sungrow, Sinexcel, EN Plus, 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

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used in analyzing the World Liquid-cooled Megawatt Supercharging Station market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (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 Liquid-cooled Megawatt Supercharging Station Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Liquid-cooled Megawatt Supercharging Station Market, Segmentation by Type:

1 MW Class Megawatt Flash Charging Pile

1-1.4 MW Megawatt Flash Charging Pile

Above 1.4 MW Megawatt Flash Charging Pile

Global Liquid-cooled Megawatt Supercharging Station Market, Segmentation by

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Deployment Mode:

Standalone Megawatt Flash Charging Station

Charging Hub Megawatt Flash Charging Station

Energy Storage Integrated Megawatt Charging Station

Global Liquid-cooled Megawatt Supercharging Station Market, Segmentation by Vehicle Type:

Passenger Vehicle Megawatt Flash Charging Pile

Heavy-Duty Truck Megawatt Flash Charging Pile

Others

Global Liquid-cooled Megawatt Supercharging Station Market, Segmentation by Application:

Highway Service Station

Logistics Hub

Public Transit Hub

Commercial Parking Area

Companies Profiled:

BYD

Huawei Digital Power

Kempower

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ABB

Siemens

KSTAR

TELD

Sungrow

Sinexcel

EN Plus

StarCharge

Tritium

Alpitronic

**Key Questions Answered:**

1. How big is the global Liquid-cooled Megawatt Supercharging Station market?
2. What is the demand of the global Liquid-cooled Megawatt Supercharging Station market?
3. What is the year over year growth of the global Liquid-cooled Megawatt Supercharging Station market?
4. What is the production and production value of the global Liquid-cooled Megawatt Supercharging Station market?
5. Who are the key producers in the global Liquid-cooled Megawatt Supercharging Station market?
6. What are the growth factors driving the market demand?

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# Contents

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