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Global Medium and High-power Wireless Charging Technology Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Medium and High-power Wireless Charging Technology market size is predicted to grow from US$ 275 million in 2025 to US$ 755 million in 2032; it is expected to grow at a CAGR of 15.5% from 2026 to 2032.

Medium and High-Power Wireless Charging Technology refers to the use of contactless electromagnetic energy transmission to achieve power transmission in the range of 100W to 22kW and above. The industry's gross profit margin is approximately 30%-50%.

Medium and High-Power Wireless Charging Technology is penetrating beyond consumer electronics into industrial, transportation, and medical fields. Its convenience, safety, and versatility will become the core direction of future energy transmission. With technological advancements and improved standards, wireless charging is expected to become a standard infrastructure for a smart society.

The main market drivers include the following:

The Demand for Electrification Transition in New Energy Vehicles and Intelligent Transportation

The core driving force behind medium-to-high power wireless charging technology stems from the explosive growth of the new energy vehicle industry. Mainstream automakers have incorporated static wireless charging into their high-end models, significantly improving the user experience by replacing traditional charging plugs. For example, users can achieve 'park and charge' without plugging and unplugging

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charging cables, solving problems such as inconvenience in rainy or snowy weather and wear and tear on charging interfaces. Furthermore, dynamic wireless charging roads, as a key component of 'vehicle-road cooperation,' are still in the pilot stage but have already demonstrated the potential to disrupt traditional charging models. In the field of intelligent transportation, the deep integration of wireless charging with automatic parking and intelligent driving technologies is driving 'seamless charging' to become a standard infrastructure feature for future travel, further accelerating the commercialization of the technology.

The Demand for Efficiency Revolution in Industrial Automation and Smart Logistics

The high sensitivity of industrial scenarios to equipment operational stability and maintenance costs is another important driving force for the implementation of medium-to-high power wireless charging technology. In the logistics and warehousing sector, automated equipment such as AGV robots and unmanned forklifts achieve '24-hour autonomous power replenishment' through wireless charging, avoiding the downtime maintenance and cable wear issues caused by traditional wired charging, and significantly reducing long-term operation and maintenance costs. For example, a company's customized medium-power solution for robotic vacuum cleaners solves the safety hazards of overcharging and extends battery life through intelligent control of the charging area. In extreme industrial environments, the explosion-proof and waterproof characteristics of wireless charging have become essential. For instance, mine inspection robots use wireless charging to avoid the risk of electrical sparks, and equipment in the chemical industry uses sealed designs to resist corrosive gas corrosion. The large-scale application of these scenarios has driven wireless charging from an 'optional solution' to a 'standard configuration' for industrial automation.

The demand for ecosystem integration between consumer electronics and smart homes

The pursuit of device integration and closed-loop ecosystems in the consumer electronics sector has opened up new battlegrounds for medium- and high-power wireless charging technology. In the smartphone market, wireless charging functionality has penetrated from high-end models to the mid-range market, and reverse wireless charging technology (such as mobile phones providing emergency power to headphones and watches) is further expanding its application scenarios. In the smart home sector, the integration of wireless charging and IoT technology is reshaping user habits: embedded wireless charging tables and pre-installed charging coils in car interior panels free devices from cable constraints, improving space tidiness; kitchen appliances are powered by hidden transmitters on countertops, achieving a closed-loop

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ecosystem of 'devices-accessories.' Furthermore, wearable devices, due to space constraints, heavily rely on wireless charging; smartwatches, TWS earphones, and other products solve the sealing design challenges through contactless charging, meeting waterproof and dustproof requirements. The widespread adoption of these scenarios is driving wireless charging to evolve from a single function into an ecosystem gateway, becoming a key node in building a smart living network.

LPI (LP Information)' newest research report, the ?Medium and High-power Wireless Charging Technology Industry Forecast? looks at past sales and reviews total world Medium and High-power Wireless Charging Technology sales in 2025, providing a comprehensive analysis by region and market sector of projected Medium and High-power Wireless Charging Technology sales for 2026 through 2032. With Medium and High-power Wireless Charging Technology sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Medium and High-power Wireless Charging Technology industry.

This Insight Report provides a comprehensive analysis of the global Medium and High-power Wireless Charging Technology landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Medium and High-power Wireless Charging Technology portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms? unique position in an accelerating global Medium and High-power Wireless Charging Technology market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Medium and High-power Wireless Charging Technology and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Medium and High-power Wireless Charging Technology.

This report presents a comprehensive overview, market shares, and growth opportunities of Medium and High-power Wireless Charging Technology market by product type, application, key players and key regions and countries.

Segmentation by Type:

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Consumer-grade Charging

Industrial-grade Charging

Segmentation by Power Range:

Medium Power (100W-1kW)

High Power (1kW-22kW)

Ultra-High Power (22kW and above)

Segmentation by Technology:

Electromagnetic Induction

Magnetic Field Coupling

Segmentation by Application:

Electric Vehicles

Industrial and Robotics

Home Appliances and Consumer Electronics

Medical

Other

This report also splits the market by region:

Americas

United States

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- Canada
- Mexico
- Brazil

APAC

- China
- Japan
- Korea
- Southeast Asia
- India
- Australia

Europe

- Germany
- France
- UK
- Italy
- Russia

Middle East & Africa

- Egypt
- South Africa

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Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Wiferion

Delta Electronics

Powermat

IPT Technology GmbH

NXP Semiconductors

ONE POINTECH

Infineon

Momentum Dynamics

Spark Connected

HEADS Co., Ltd.

Omron Automotive Electronics (Nidec)

W?RTSIL?

Bombardier

Dao Chong Technology

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Luyu Energy

Xuanyi Technology

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Contents

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3 MEDIUM AND HIGH-POWER WIRELESS CHARGING TECHNOLOGY MARKET SIZE BY PLAYER

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10 GLOBAL MEDIUM AND HIGH-POWER WIRELESS CHARGING TECHNOLOGY MARKET FORECAST

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11 KEY PLAYERS ANALYSIS

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List Of Tables

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List Of Figures

LIST OF FIGURES

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