

Global Underwater Wireless Charging System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Underwater Wireless Charging System market size is expected to reach \$ 124 million by 2032, rising at a market growth of 14.6% CAGR during the forecast period (2026-2032).

Underwater wireless charging system are integrated equipment systems deployed in seawater, freshwater, ports, reservoirs, subsea facilities, and confined underwater environments to provide non-contact power replenishment for AUVs, ROVs, underwater robots, subsea sensor nodes, and resident subsea equipment. The product scope mainly covers underwater charging stations, subsea docking stations, dock-side wireless power transmitters, vehicle-side wireless charging receivers, magnetic inductive or resonant coupling structures, power electronics converters, battery charging controllers, alignment and positioning mechanisms, waterproof sealing structures, corrosion-resistant packaging, and optional integrated data transfer modules. Core technologies include underwater wireless power transfer, pressure-resistant sealing, anti-corrosion encapsulation, power conversion control, misalignment compensation, thermal management, and integrated underwater communication. Key specifications include charging power, transfer efficiency, operating water depth, pressure rating, alignment tolerance, ingress protection level, data transmission rate, and long-term system reliability. These systems are mainly used in offshore engineering, defense and security, marine research, port inspection, aquaculture, subsea infrastructure monitoring, and long-duration underwater observation. In 2025, the global industry average delivery price of underwater wireless charging systems was approximately USD 650,000 per unit, global deliveries were approximately 70 units, and the gross margin of core system and key module suppliers was approximately 30%-40%.

Underwater wireless charging system sit at the intersection of underwater robotics,

offshore engineering equipment, and long-duration subsea infrastructure. The upstream supply chain mainly includes power semiconductors, magnetic materials, pressure-resistant seals, anti-corrosion materials, connectors, battery management systems, and underwater communication components. The midstream segment consists of underwater wireless power modules, subsea docking and charging stations, vehicle-side receivers, and integrated charging control systems. Downstream demand comes from AUVs, ROVs, subsea sensor networks, offshore energy inspection, defense unmanned underwater platforms, marine research equipment, port inspection, and aquaculture monitoring. The industry is still in an early commercialization stage, with demand driven more by project-based deployment, customization, and reliability validation than by standardized mass production.

The competitive landscape is characterized by a small number of qualified suppliers, high technical barriers, and clear regional specialization. Europe has stronger early advantages in subsea docking stations, inductive underwater connectors, and offshore energy applications. North America is more active in modular robotic wireless charging platforms and early commercial prototypes. China is beginning to move toward high-power underwater wireless charging products and engineering solutions, while Japan is more closely tied to large AUV systems and integrated subsea stations. Competition is less about low-cost production and more about charging power, transfer efficiency, alignment tolerance, deepwater reliability, sealing performance, corrosion resistance, communication integration, and proven subsea operating records.

Policy and demand drivers are becoming more favorable as countries increase investment in marine security, subsea infrastructure monitoring, offshore wind operation and maintenance, deep-sea resource development, ocean observation, and unmanned defense platforms. As underwater robots shift from short-duration missions to resident and long-endurance operations, underwater wireless charging systems are expected to move from research prototypes and pilot projects toward small-batch engineering deployment. Future growth will depend on the adoption speed of AUVs and resident ROVs, the standardization of subsea docking stations, capital spending cycles in defense and offshore energy, and the long-term reliability validation of high-power underwater wireless charging systems.

This report studies the global Underwater Wireless Charging System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Underwater Wireless Charging System 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 Underwater Wireless Charging System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Underwater Wireless Charging System total production and demand, 2021-2032, (Units)

Global Underwater Wireless Charging System total production value, 2021-2032, (USD Million)

Global Underwater Wireless Charging System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Underwater Wireless Charging System consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Underwater Wireless Charging System domestic production, consumption, key domestic manufacturers and share

Global Underwater Wireless Charging System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Underwater Wireless Charging System production by Power Rating, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Underwater Wireless Charging System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Underwater Wireless Charging System 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 JONHON, Blue Logic AS, Unplugged AS, Subsea USB AS, WiBotic Inc., Blue Robotics, Inc., Quaze Technologies Inc., Kawasaki Heavy Industries, Ltd., 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 Underwater Wireless Charging System 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 Power Rating, 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 Underwater Wireless Charging System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Underwater Wireless Charging System Market, Segmentation by Power Rating:

Low Power Systems??1 kW?

Medium Power Systems?1?10 kW?

High Power Systems?10?50 kW?

Ultra-high Power Systems??50 kW?

Others

Global Underwater Wireless Charging System Market, Segmentation by Power Transfer Technology:

Inductive Wireless Charging

Resonant Wireless Charging

Hybrid Power and Data Coupling

Others

Global Underwater Wireless Charging System Market, Segmentation by Target Platform:

AUV Charging Systems

ROV and Resident ROV Charging Systems

UUV and Defense Underwater Platform Charging Systems

Underwater Sensor Node Charging Systems

Others

Global Underwater Wireless Charging System Market, Segmentation by Application:

Offshore Energy Industry

Defense and Security Industry

Marine Research and Environmental Monitoring

Port and Underwater Infrastructure Industry

Aquaculture Industry

Others

Companies Profiled:

JONHON

Blue Logic AS

Unplugged AS

Subsea USB AS

WiBotic Inc.

Blue Robotics, Inc.

Quaze Technologies Inc.

Kawasaki Heavy Industries, Ltd.

Key Questions Answered:

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

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