

Global Underwater Wireless Charging System Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/GEC873B66E3DEN.html>

Date: August 2026

Pages: 92

Price: US\$ 3,480.00 (Single User License)

ID: GEC873B66E3DEN

Abstracts

According to our (Global Info Research) latest study, the global Underwater Wireless Charging System market size was valued at US\$ 46.82 million in 2025 and is forecast to a readjusted size of US\$ 124 million by 2032 with a CAGR of 14.6% during review period.

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 systems 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 is a detailed and comprehensive analysis for global Underwater Wireless Charging System market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Power Rating and by Application. As the market

is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Underwater Wireless Charging System market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Underwater Wireless Charging System market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Underwater Wireless Charging System market size and forecasts, by Power Rating and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Underwater Wireless Charging System market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Underwater Wireless Charging System

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Underwater Wireless Charging System market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Underwater Wireless Charging System market is split by Power Rating and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Power Rating, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment 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

Market segment by Power Transfer Technology

Inductive Wireless Charging

Resonant Wireless Charging

Hybrid Power and Data Coupling

Others

Market segment 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

Market segment by Application

Offshore Energy Industry

Defense and Security Industry

Marine Research and Environmental Monitoring

Port and Underwater Infrastructure Industry

Aquaculture Industry

Others

Major players covered

JONHON

Blue Logic AS

Unplugged AS

Subsea USB AS

WiBotic Inc.

Blue Robotics, Inc.

Quaze Technologies Inc.

Kawasaki Heavy Industries, Ltd.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Underwater Wireless Charging System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Underwater Wireless Charging System, with price, sales quantity, revenue, and global market share of Underwater Wireless Charging System from 2021 to 2026.

Chapter 3, the Underwater Wireless Charging System competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Underwater Wireless Charging System breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Power Rating and by Application, with sales market share and growth rate by Power Rating, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Underwater Wireless Charging System market forecast, by regions, by Power Rating, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Underwater Wireless Charging System.

Chapter 14 and 15, to describe Underwater Wireless Charging System sales channel, distributors, customers, research findings and conclusion.

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