# WATER BOAT Energy-independent Eco-friendly Unmanned WaterBoat







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# Product Overview

- | 「WaterBoat」, An innovative eco-friendly boat which produces hydrogen using a water electrolysis device powered by solar energy and uses it as fuel
- Provides sustainable and eco-friendly navigation by producing and storing its own energy without external power supply



Self contained oceanic drone and method for oceanographic survey and surveillance Patent registered : Korea (10–2005805), USA (11,014,837), China (ZL201910486263.0), Japan (6829743)

## 📀 Key Features



## 1. Hydrogen Production

Utilization of renewable energy, such as solar power, for hydrogen production through an alkaline water electrolysis system

(H<sub>2</sub>)

## 2. Energy Production

Hydrogen is used in PEM fuel cell system to generate electricity



## Integrated Management Platform

Optimizes power generation and utilization based on A-loT and ensures safe navigation and efficient mission execution of the WaterBoat product features

## 4. Boat Navigation

Energy is used to support long-distance voyages with minimal port calls

## 3. Energy Storage

Eco-friendly energy produced is stored in ESS battery

# Product Features



### | Eco-friendly boat powered by water



- Produces hydrogen through solar-powered water electrolysis, generates electrical energy via hydrogen fuel cells
- Stores excess energy in batteries for continued operation

## Independent green hydrogen boat



- Develops small boats that can be operated by people through large-scale electrolysis and fuel cell modules
- Customizable manufacturing is possible through proprietary technology

#### | 1 bottle of water = 1 hour of operation



- Uses next-generation carbon-free fuel for carbon neutrality
- Operates for 1 hour on 1 bottle of water

## Unmanned hydrogen boat



- Acquires weather data from oceans, rivers, etc. custom sensors and equipment for purposes such as firefighting, crime prevention, etc.
- Can be manufactured and utilized for various purposes

# Specifications

|                          | WB-M1    | WB-UM2   |
|--------------------------|----------|----------|
| Operation Mode           | Manned   | Unmanned |
| Electric Motor Output    | 5.0 BHP  | 2.0 BHP  |
| Fuel Cell Output         | 3,000 W  | 300 W    |
| Weight                   | 3,000 kg | 50 kg    |
| Hydrogen Production Rate | 40 L/min | 4 L/min  |