# WATER BOAT Energy-independent Eco-friendly Unmanned WaterBoat







Head OfficeI #203, 2, Busandaehak-ro 63 beon-gil, Geumjeong-gu, Busan, Republic of KoreaSW CenterI #506, 34, Daehak-ro, Yeongtong-gu, Suwon, Gyeonggi-do, Republic of KoreaR&D CenterI Busandaehak-ro 49 beon-gil, Yangsan, Gyeongsangnam-do, Republic of KoreaProduction FactoryI 353-1, Eosil-ro, Yangsan, Gyeongsangnam-do, Republic of KoreaOverseas CorporationI 9 Raffles Place #27-00, Republic Plaza, SingaporeT:+82-51-747-6188F:+82-51-747-6187E:info@kwatercraft.com





# 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