

# **500kW Foldable Container for Unmanned Aerial Vehicle Stations**





## Overview

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Can a foldable wing unmanned aerial-underwater vehicle egress water?

Learn more. This paper presents the design and field test of a foldable wing unmanned aerial-underwater vehicle (UAUV). The vehicle can complete diving and air operations, and still have the ability of multiple trans-medium water egress and ingress under the condition of carrying mission load during a single flight.

What is a foldable wing HAUV?

Hybrid Aerial Underwater Vehicles (HAUVs), capable of operating effectively in both aerial and underwater environments, offer promising solutions for a wide range of applications. This paper presents the design and development of a novel foldable wing HAUV, detailing the overall structural framework and key design considerations.

What is uncrewed aerial vehicle (UAV)?

Rapid innovation in Uncrewed Aerial Vehicle (UAV) capabilities enable the opportunity for novel drone applications. Specifically, the growing use of UAVs in sea.

What is a foldable-wing aerial underwater vehicle?

To enable the vehicle to achieve high-speed flight in the air and high-speed navigation underwater while minimizing impact loads upon entering water and reducing resistance upon exiting, the foldable-wing aerial underwater vehicle combines the functionalities of fixed-wing unmanned aerial vehicles and underwater submersibles.



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### Design and field test of a foldable wing unmanned aerial-underwater vehicle

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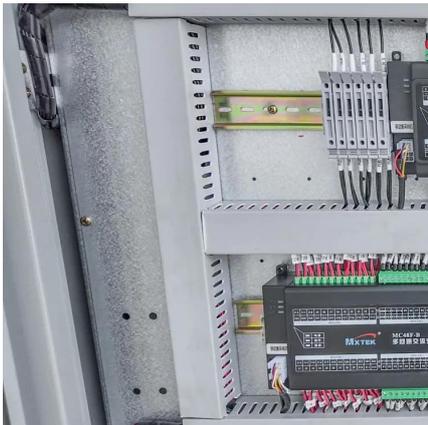
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