

Vanuatu Solar Folding Containerized Scalable Unmanned Aerial Vehicle Station





Overview

What are solar-powered unmanned aerial vehicles (spuavs)?

Abstract: Solar-powered Unmanned Aerial Vehicles (SPUAVs), commonly known as solar drones, are an innovative and eco-friendly category of aircraft that rely on solar energy as their primary power source. Outfitted with solar panels, these drones capture and convert sunlight into electricity, substantially extending their flight durations.

What is folding wing mechanism for small-UAV (15 kg)?

The paper gives review of design of folded wing mechanism for small-UAV (<15 kg) and motion analysis results for mechanism. Role of mechanism as to fold the wings in idle position manually and automatically open the wings when released from launcher and hold the wings by spring force while travelling.

How was the batteryless UAV Design validated?

The batteryless UAV design was validated in a lab setting (Fig. 20) and an outdoor setting. In the lab setting, a data acquisition platform was developed using an Arduino Mega MCU and COTS sensors with open-source integration solutions for the Arduino platform.



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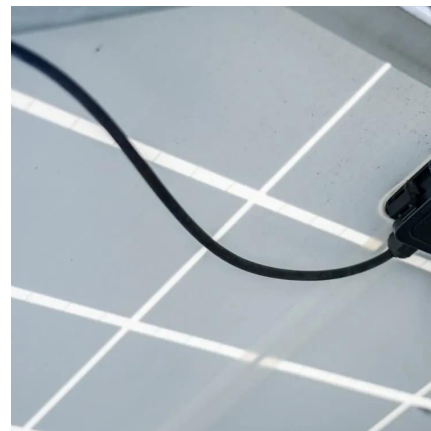
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