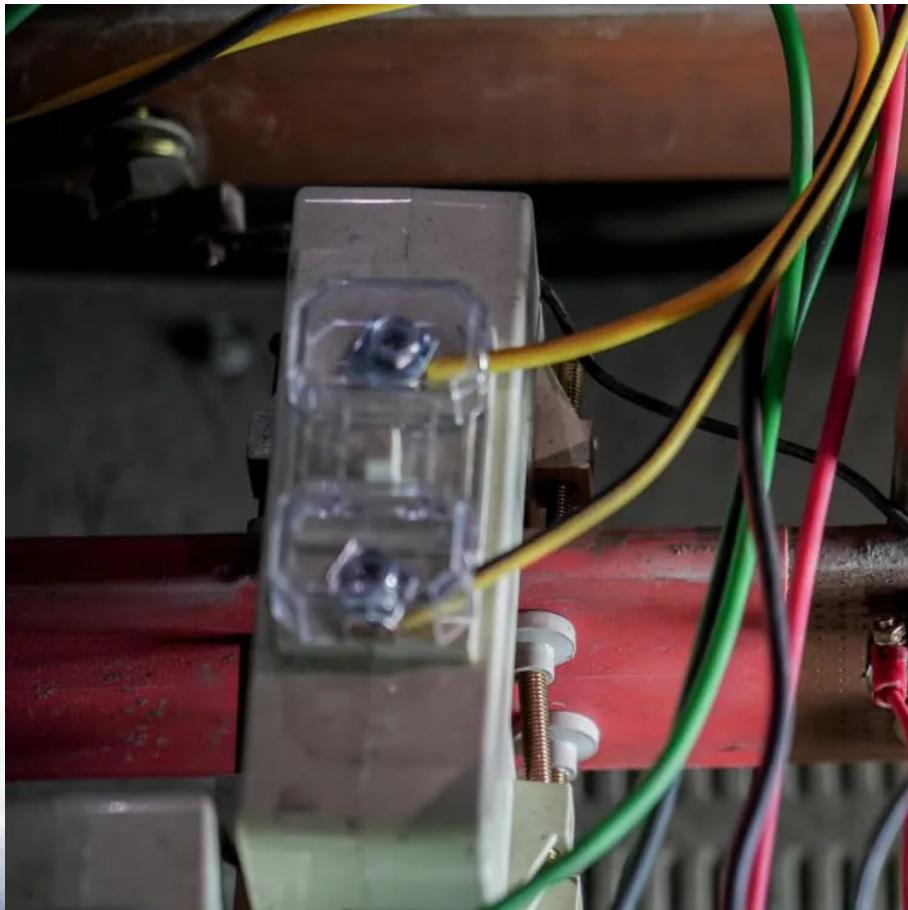




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10MWh Smart Photovoltaic Energy Storage Container for Unmanned Aerial Vehicle Stations





Overview

What are the benefits of solar-powered unmanned aerial vehicles?

Additionally, it ensures that solar-powered UAVs make sufficient use of solar energy to complete high-altitude and long-duration flights in any flight task, reduce the energy consumption of the battery, and improve the flight performance of solar-powered UAVs. 2. Energy system model for solar-powered unmanned aerial vehicle.

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

In the field of aviation, solar-powered unmanned aerial vehicles (UAVs) have attracted attention owing to their high-altitude cruise and the availability of renewable energy , .

What is the energy management system of a solar-powered UAV?

The energy-consuming system comprises a thrust system and airborne equipment; the thrust system comprises a motor, propeller, reducer, and direct current/alternating current (DC/AC) converter , . Herein, an energy management system was used to control the energy distribution of a solar-powered UAV. Fig. 1.

Which energy supply system provides UAVs with energy during a cruise?

As shown in Fig. 1(a), the energy supply system, which includes photovoltaic and battery systems, provides the UAVs with energy during the cruise. The photovoltaic system contains photovoltaic arrays and a maximum power point tracker (MPPT).



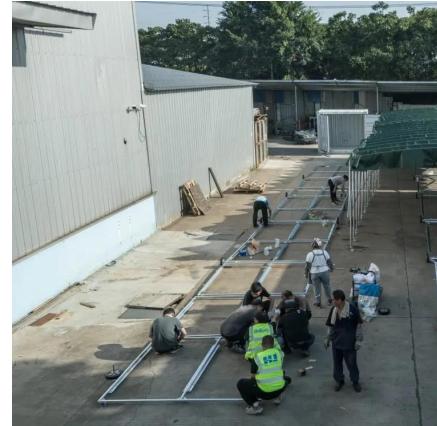
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