4.9 氢气无人机



RFPD-HyDrone is an UAV that adopts an integrated hydrogen-lithium hybrid system. Through the design of lightweight electric stack and electronic control, it effectively releases the load capacity and realizes high-quality power ratio and fast power response. Relying on the integrated hydrogen-lithium hybrid architecture, a dedicated hydrogen-lithium hybrid power system has been developed for the vehicle. Through modeling and simulation, it provides the best energy strategy and energy management for the vehicle's full working conditions, meeting the power demand of multiple power levels while ensuring long range, timely response, and high safety.

UAV	Motor Type	Hydrogen-lithium Hybrid System
	UAV Type	Four-axle Octocopter
	Wheel Base	1550mm
	Height	740mm
	Airscrew Size	30 inches
	Maximum Flight Speed	10m/s
	Maximum Flight Radius	1000m
	Maximum Flight Height	3000m
	Maximum Take-off Weight	28kg
	Maximum Payload Weight	5kg
	No-load Endurance	90mins
	Full-load Endurance	75mins
Hydrogen Storage System	Hydrogen Capacity	12L@35Mpa
Power Configuration	Rated Voltage	48V
	Rated Output Power	3000W
	Peak Output Power	5500W