

Endurance and efficiency gains from self-built UAVs

Using fuel cells for rotary wing UAVs

Hydrogen fuel cells are the best power solution for commercial UAV operators looking for **greater endurance** or **higher payloads**.

IE-Soar[™] modules are easy to integrate into both commercially available platforms and self-built UAVs for use in commercial services such as parcel delivery and inspection. Below are two UAV builds based around IE-Soar[™] 800W and IE-Soar[™] 2.4kW modules. They are designed to maximise flight time while using readily available, off the shelf and well proven commercial UAV components. Payloads and flight times are shown in the graph below.

Not only do fuel cells offer three times longer flight durations compared to batteries, they also benefit from **fast refuel**, substantially **fewer refuelling stops**, **minimal maintenance** and **longer usable life**.

The UAV configurations shown below illustrate what can be achieved with off the shelf components and IE-Soar^TM modules.



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companies.

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