

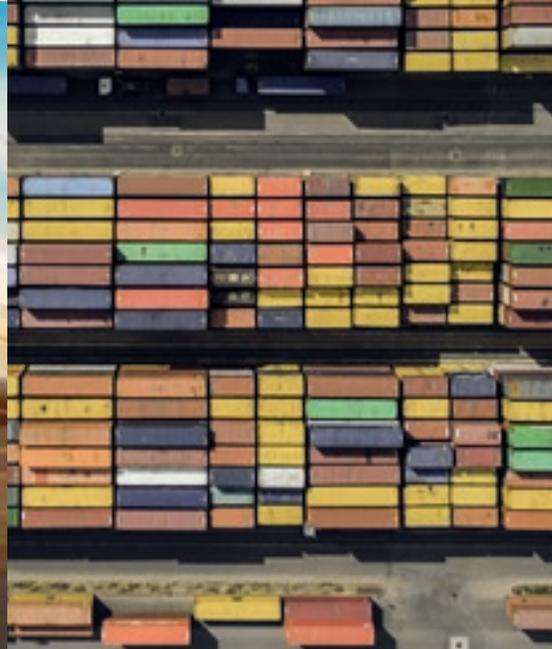
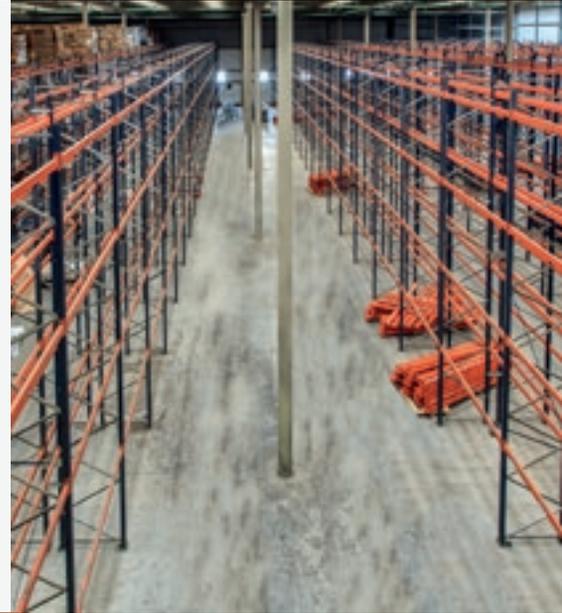
UAV Fuel Cell Power Module



Fly
Longer



Fly
Further



Achieve
More

The use of professional Unmanned Aerial Vehicles (UAVs) has grown significantly in recent years. Owing to the constraints of traditional battery technology flight time remains limited.

The industry needs a viable alternative to address this problem.

Intelligent Energy's hydrogen fuel cell technology enables your UAV fleet to fly significantly longer and can improve the run-time of other mass sensitive electrically powered technology.

About Intelligent Energy

Intelligent Energy is a fuel cell engineering company focused on the development and commercialisation of its PEM fuel cell technologies for a range of markets including automotive, stationary power and UAVs. It is headquartered in the UK, with additional offices and representation in the US, Japan, India, and China.

Endurance power module for professional UAVs

Intelligent Energy's fuel cell power modules run on hydrogen and ambient air to produce clean DC power in a simple, cost effective, robust and lightweight package. They have a higher energy to mass ratio than battery systems and can be refuelled in minutes.

By replacing the battery with a fuel cell power module you can maximise productivity and minimise downtime meaning you can **fly longer, fly further and achieve more.**

The modules are scalable and can be integrated into your UAV platform without compromising payload placement, providing a natural solution for a wide range of industries using multi-rotor, fixed wing or proprietary designed UAVs.



Longer flight
time

compared to batteries

Less
downtime

with rapid refuelling

Increase
productivity

a one stop solution

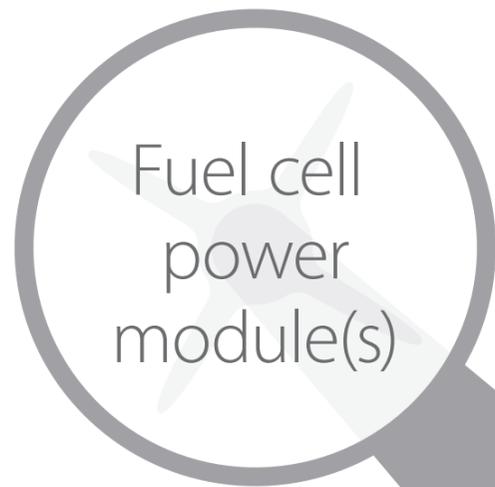


Fuel cell power modules can be combined to create higher power systems

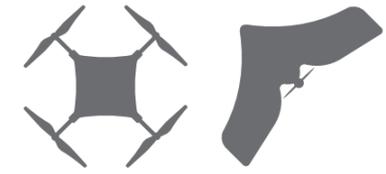
Accurate fuel level monitoring

650W FCPM CE and FCC certified

The modules provide a cost effective, optimised, operational solution



4
easy steps
to achieve longer
UAV flight time



The fuel cell power modules can be integrated into a variety of UAVs including multi-rotor and fixed wing

Design your own application specific UAVs that integrate the fuel cell module for optimal flight times

Can directly replace your battery in most existing applications

Flexibility

The fuel cell power module has multiple mounting points for maximum application flexibility and can be configured for installation onto multiple airframes with minimal effort

Cylinder refuelling

Intelligent Energy can introduce you to a number of off the shelf, safe and practical refuelling solutions including:

- Back to base compressor
- Portable solutions to provide days of flight time
- Third party partner agreements
- Back at base hydrogen generator



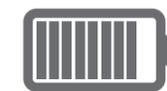
Hydrogen cylinders

Hydrogen is readily available worldwide from a large number of outlets

Variety of certified cylinders to fit a wide range of applications

Cylinder size can be specified based on payload and flight time required

Custom cylinders can be commissioned for optimised flight time

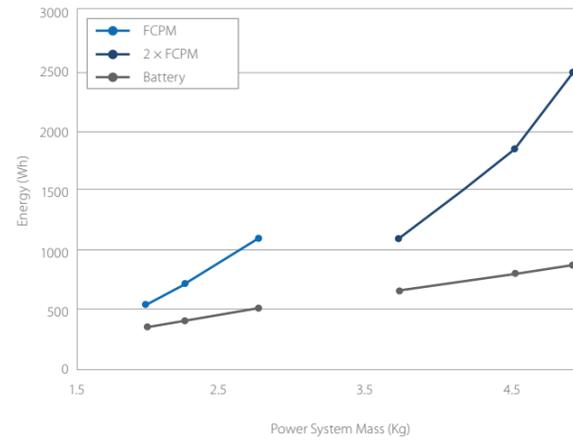
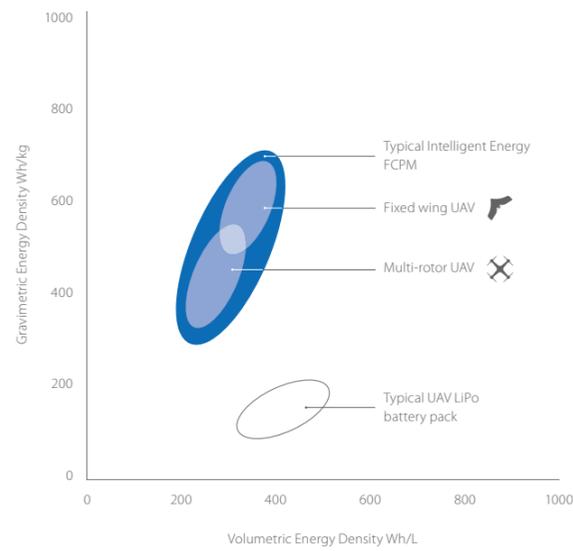


A hybrid fuel cell and battery system optimises performance and flight time

Provides power unit redundancy

The battery is used to provide peak power when required

Comparison of battery vs fuel cell in typical UAV applications



Products available in this range:

650W FCPM

800W FCPM

Frequently Asked Questions

Do I need to modify my UAV?

No. The fuel cell power modules can directly replace your battery in most existing applications. Or you could design a UAV around the unit for fully optimised performance. Options are endless and significantly larger flight times can be achieved.

How do I refill the cylinders?

Intelligent Energy can introduce you to a number of off-the-shelf, safe and practical refuelling solutions.

How does your module compare to other fuel cell UAV solutions?

In these power ranges, we have the most power dense fuel cell stacks in the world.

Why is a fuel cell the best choice vs a battery?

To maximise flight time the most energy dense solution is a fuel cell.

How do I learn more about fuel cell power modules?

Speak to one of our team or visit our website at www.intelligent-energy.com

When is the technology available?

The fuel cell power modules are available to order now. Please speak to us about your specific requirements and lead times for each of the products.

Fly Longer

Fly Further

Achieve More

[intelligent-energy.com](https://www.intelligent-energy.com)