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. We are headquartered in the UK, with additional offices and representation in the US, Japan, South Korea and China.

Intelligent Energy provides a unique solution to extend flight times to drones presently constrained by the limitations of batteries.

The Power Path Module (PPM) is a proprietary module designed to facilitate ‘plug and play’, linking two IE-Soar™ modules in series. The product is compatible with all the company’s IE-Soar™ modules providing they are two of the same (ie the same power output). Our IE-Soar™ modules can power UAVs for significantly longer than traditional batteries. The PPM enables our customers to power larger UAVs with a heavier payload.

Intelligent Energy’s air cooled fuel cell systems 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 based systems and can be refuelled in a few minutes.

Please contact us for availability and pricing.

Applications for the IE-Soar™ modules combined with a PPM:
- Survey and inspection
- Search and rescue
- High quality aerial photography
- Precision agriculture
- Parcel delivery
- Warehouse inventory
- Law enforcement
- Military
- Robotics
- Portable power
Power Path Module specifications

**Dimensions**
- 110 × 95 × 25mm

**Mass**
- 150g

**Output voltage**
- 44.4V to 50V

**Operating temperature**
- 5°C to 35°C

**Maximum altitude**
- 3000m

**Certification**
- CE and FCC

**Internal data storage, firmware update, diagnostics**
- SD Card

**Communication port to UAV**
- UART

**Output electrical connector**
- XT60 Female

**Configurations**

<table>
<thead>
<tr>
<th></th>
<th>2 × IE-Soar™ 650W</th>
<th>2 × IE-Soar™ 800W</th>
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</thead>
<tbody>
<tr>
<td>Mass (including hybrid batteries and regulator, excluding cylinder)</td>
<td>2330g</td>
<td>2610g</td>
</tr>
<tr>
<td>Max continuous power</td>
<td>1300W</td>
<td>1600W</td>
</tr>
<tr>
<td>Max peak power (&lt;30 seconds)</td>
<td>2000W</td>
<td>2800W</td>
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**Cylinder Configurations**
- Dual and single regulator configurations possible

For more information about our products visit our website: [www.intelligent-energy.com](http://www.intelligent-energy.com)

To find out how you could benefit from longer flight times, arrange a meeting with a sales representative in your region by emailing: sales@intelligent-energy.com