



## Data sheet

# IE-SOAR™ 1.2kW

**A fuel cell power module that directly replaces a battery and gives much longer flight times.**

**Enable previously impossible applications** – your business is no longer constrained by flight time.

**Unlock BVLOS operations** – BVLOS makes sense with the range provided by fuel cells.

**Increase operational efficiency** – spend more time in the air and achieve more.

### Technical benefits

Designed for safety and reliability. Single point failure tolerant and built in power system redundancy.

Ideal for VTOL and fixed wing applications.

Direct battery replacement – 12S to 16S compatible.

Automatically follows load demand just like a battery.

1000 hour commercial warranty.

### Fuel cells vs. batteries

- Increased flight time
- Fast refueling
- Built in power system redundancy

### Fuel cells vs. internal combustion engines

- Clean & zero-emission
- Near silent operation
- Reduced maintenance. No moving parts. No tuning.
- Vibration free for maximum stability



# IE-SOAR™ 1.2kW specifications

Maximum continuous power		1200W
Peak power		Up to 8000W
Output voltage (DCDC regulated)		Configurable between 50V and 70V
<b>Fuel Cell Power Module</b>	Dimensions	128 × 246 × 233mm
	Mass	2700g
<b>Hydrogen regulator</b>	Mass	315g
	Maximum regulator (cylinder) pressure	350 bar/5000 psi
	Output pressure	0.9 bar ± 0.25 bar/7 psi ± 3 psi
	Maximum cylinder mass	10kg
<b>Default hybrid batteries</b> (Configurable for higher or longer peak power)	Configuration	2 × 6S in series
	Dimensions (per battery)	135 × 40 × 40mm
	Mass (per battery)	535g
	Capacity (per battery)	3300mAh
	Peak power	4800W
<b>Environmental operating conditions</b>	Startup temperature	5°C to 40°C
	Operating temperature*	-5°C to 40°C
	Maximum altitude*	3500m
	Storage temperature	-10°C to 70°C
	System warranty	1000 hours
<b>Safety features</b>	Dual redundant power system and backup battery	
<b>Other features</b>	Internal data storage for firmware update, performance and diagnostics	SD card
	Communication protocol to UAV or accessories	UART / CAN
	Output electrical connector	Ring Terminal / AS150

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](mailto:sales@intelligent-energy.com)



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