



Powering the hydrogen future™ with our outstanding fuel cells and service.

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
Fuel Cell Power Module	Dimensions	128 × 246 × 233mm
	Mass	2700g
Hydrogen regulator	Mass	315g
	Maximum regulator (cylinder) pressure	350 bar/5000 psi
	Output pressure	0.9 bar ± 0.1 / 13 psi ± 1.5
	Maximum cylinder mass	10kg
Default hybrid batteries (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
Environmental operating conditions	Startup temperature	5°C to 40°C
	Operating temperature*	-5°C to 40°C
	Maximum altitude*	3000m
	Storage temperature	-10°C to 70°C
	System warranty	1000 hours
Safety features	Dual redundant power system and backup battery	
Other features	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

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



+44 (0) 1509 271 271
sales@intelligent-energy.com
intelligent-energy.com

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