



IE-SOAR™



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

IE-SOAR 2.4kW

IE-SOAR™ fuel cell power modules directly replaces a battery and give 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. internal combustion engines

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

Fuel cells vs. batteries

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

Summary Product Information:

Maximum continuous power	2400W
Peak power (with hybrid battery)	Up to 8000W
Output voltage (DCDC regulated)	Configurable between 50V and 70V
Fuel Cell Power Module	
Dimensions	128 × 442 × 233mm
Mass	4800g
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	
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	5000m
Storage temperature	-10°C to 70°C
System warranty	1000 hours



Get in touch today to find out how your applications can benefit from our zero-emission fuel cells

www.intelligent-energy.com/our-products · +44 (0)1509 271271 · sales@intelligent-energy.com