



**IE-SOAR®**



**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. 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	1200W
Peak power (with hybrid battery)	Up to 8000W
Output voltage (DCDC regulated)	Configurable between 50V and 70V
<b>Fuel Cell Power Module</b>	
Dimensions	128 x 246 x 233mm
Mass	2700g
<b>Hydrogen regulator</b>	
Mass	315g
Maximum regulator (cylinder) pressure	350 bar/5000 psi
Output pressure	0.9 bar $\pm$ 0.1 / 13 psi $\pm$ 1.5
Maximum cylinder mass	10kg
<b>Default hybrid batteries</b>	
Configuration	2 x 6S in series
Dimensions (per battery)	135 x 40 x 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



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

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