

STRALIS H-E

HIGH-TEMPERATURE FUEL CELL SYSTEM

The Stralis HE-120 hydrogen-electric fuel cell system is specifically designed for electric aircraft propulsion. Our propulsion system is based on 120kW modules that are scalable for higher power applications.

High-temperature PEM technology simplifies the system, reducing both weight and drag. Our system integrates our fuel cell system with liquid hydrogen tanks and electric motors.

Suitable for fixed wing aircraft, VTOL, and helicopter applications.

120KW

160 HP

Maximum continuous power

1.7 KW/KG

1250 WH/KG

Specific power and energy

70 KG

154 LB

Total system weight

50%

@75 KW

Net efficiency



**LOW
WEIGHT**

Comparable to turbofan (incl. H₂)



**LOW
MAINTENANCE**

~60% cost savings vs turboprop



**LOW
DRAG**

25% airflow vs low temp PEM



**ZERO
EMISSIONS**

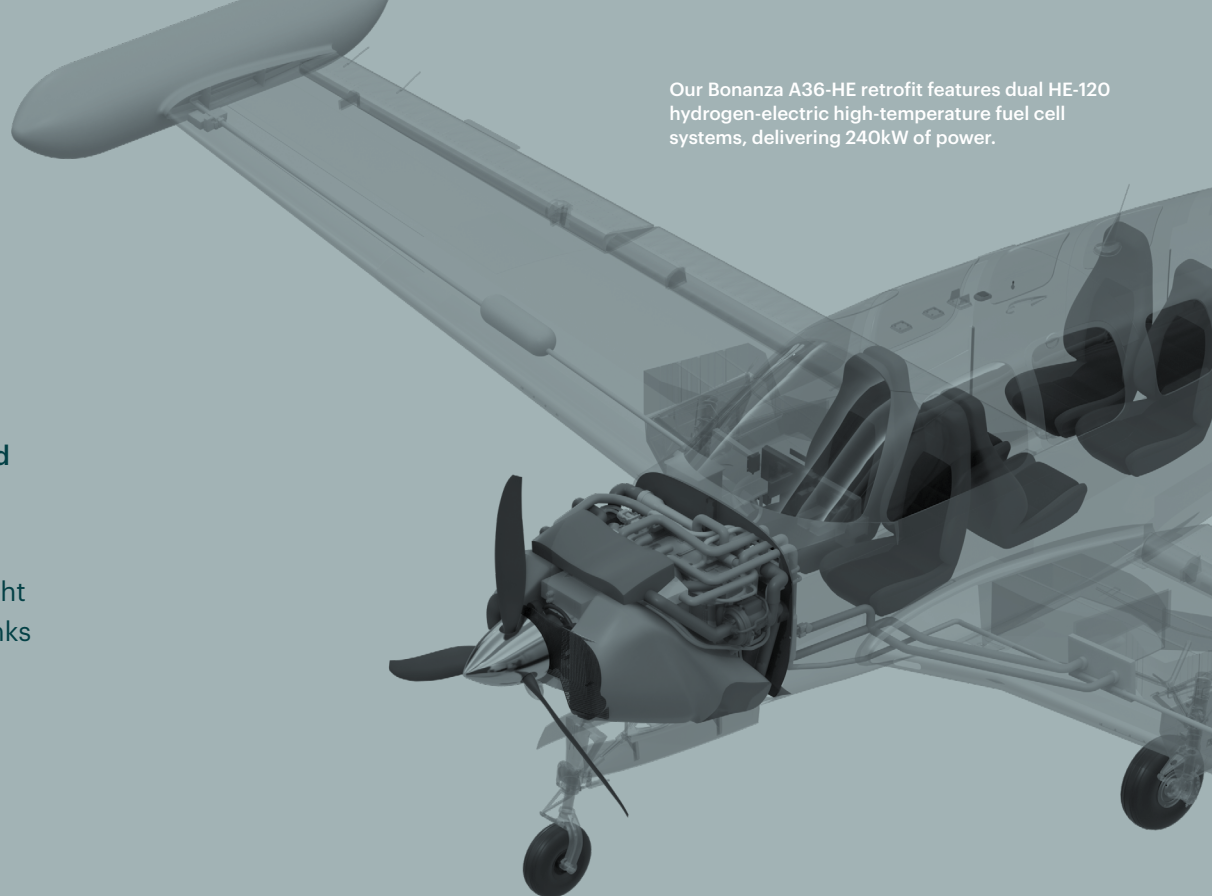
No Nitrogen or Sulphur oxides



Hydrogen-electric propulsion for cheaper, quieter, cleaner aircraft

STRALIS.AERO

Our Bonanza A36-HE retrofit features dual HE-120 hydrogen-electric high-temperature fuel cell systems, delivering 240kW of power.



STRALIS H-E

Our hydrogen-electric fuel cell system features stacks connected in series, with turbocharging and liquid cooling and scales to suit a range of aircraft sizes.

OPTIONS

Stacks	Stacks +	HEPS
Fuel cell stack includes HT-PEM technology, aluminium plates, and composite housing	Fuel cell system including cooling, turbocharger, and controller	Complete propulsion system from propellor to pilot interface
		H2 tank optional Gas or liquid



FUEL CELL

Power	120 kW	166 HP
System Weight	70 kg	154 lbs
Voltage	480-800 V	
Fuel Consumption	4.5 kg/hr	10 lbs/hr

MOTOR

Power	180 kW	
Motor Weight	18 kg	40 lbs
Voltage	800 V	
Efficiency	97%	

TANK

Full Weight	52 kg	114 lbs
LH2	13 kg	25 lbs
Flight Time	2 hrs	
Hold Time	6 hrs	

ENQUIRIES

Contact our team to discuss your fixed wing aircraft, VTOL, or helicopter requirements via sales@stralis.aero

