

STRALIS

30-80 SEAT

HIGH-TEMPERATURE FUEL CELL SYSTEM



2.5 MW

1340 HP

Maximum continuous power

2.6 KW/KG

2600 WH/KG

Specific power and energy

960 KG

837 LB

Total system weight

50%

@75 KW

Net efficiency at cruise



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

STRALIS 30-80 SEAT

Our 30-80 seat use-case is inspired by our vision for the world's first clean sheet design optimised for hydrogen-electric technology. Designed to fly 3000km, it will outperform comparable aircraft.

The Stralis hydrogen-electric fuel cell system is designed for electric aircraft propulsion. Our high-temperature PEM technology simplifies the system, reducing both weight and drag. Stralis fuel cell systems intergrates with liquid hydrogen tanks and electric motors.



FUEL CELL

Power	4500 kW	6035 HP
System Weight	1700 kg	3747 lbs
Voltage	600-800 V	
Fuel Consumption	190 kg/hr	418 lbs/hr

MOTOR

Power	2 x 2000 kW	2682 HP
Motor Weight	2 x 95 kg	418 lbs
Voltage	800 V	
Efficiency	97%	

TANK

Full Weight	2000 kg	4409 lbs
LH2	1100 kg	2425 lbs
Flight Time	5 hrs	
Hold Time	24 hrs	

ENQUIRIES

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



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