

STRALIS

10-20 SEAT

HIGH-TEMPERATURE FUEL CELL SYSTEM



1 MW
1340 HP

Maximum continuous power

2.6 KW/KG
2600 WH/KG

Specific power and energy

380 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 10-20 SEAT

Our 10-20 seat use-case is modelled on best in class aircraft like the Beechcraft 1900D. Designed to fly 800km, airlines with 10-20 seat aircraft are committing to this near term solution.

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	2000 kW	2682 HP
System Weight	770 kg	1697 lbs
Voltage	600-800 V	
Fuel Consumption	84 kg/hr	185 lbs/hr

MOTOR

Power	2 x 955 kg	2561 HP
Motor Weight	2 x 95 kg	418 lbs
Voltage	800 V	
Efficiency	97%	

TANK

Full Weight	500 kg	1102 lbs
LH2	215 kg	473 lbs
Flight Time	2 hrs	
Hold Time	24 hrs	

ENQUIRIES

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

