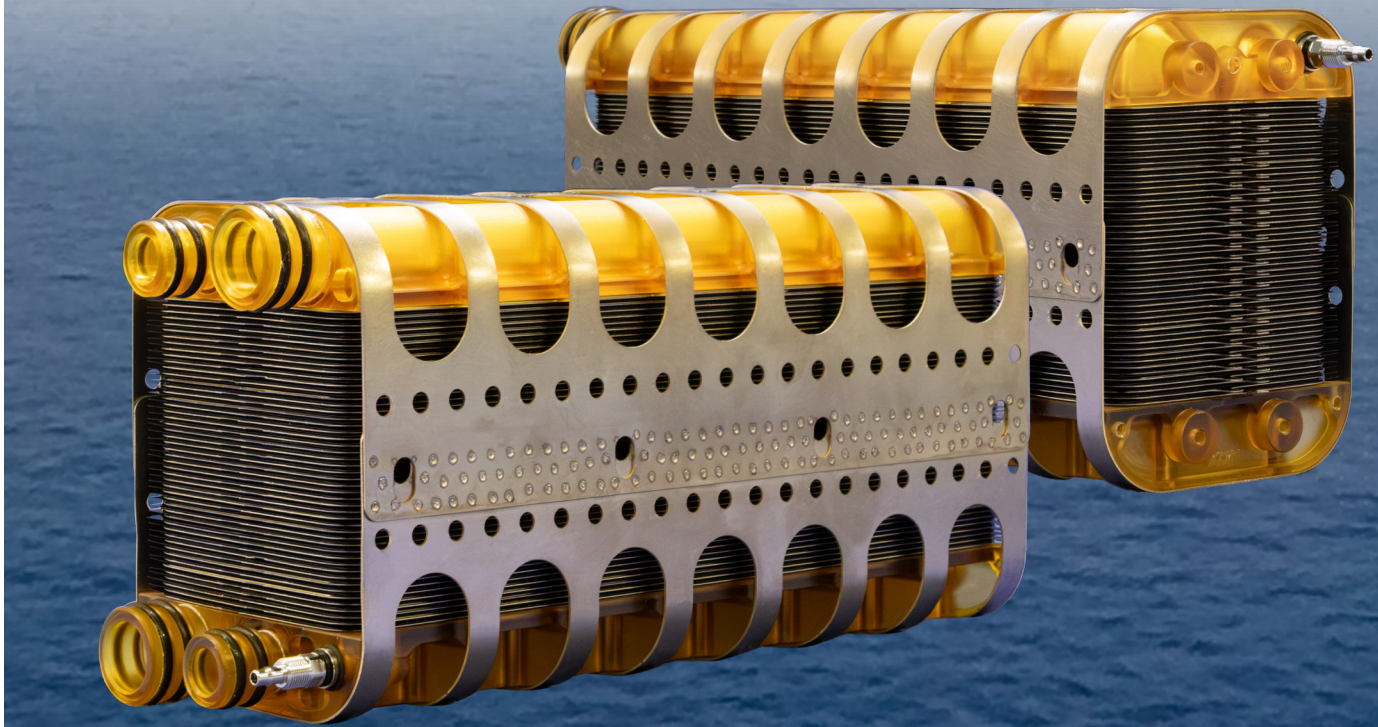


Fuel Cell Stack



Clean Reliable Energy

UNMATCHED POWER FOR CRITICAL MISSIONS

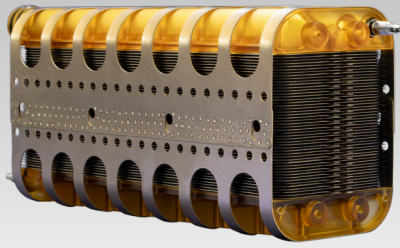
HIGH-DENSITY FUEL CELL ENDURANCE ENGINEERED FOR EXTREME OPERATIONS.

The NWFC-1500 fuel cell delivers dependable, high-density energy in rugged conditions. Engineered for maximum endurance, it replaces restrictive batteries to keep vital equipment operating longer. Simple, powerful, continuous energy.

01. Classification: H₂ Proton Exchange Membrane (PEM) Fuel Cell Stack
02. Origin: Made in the USA
03. Platform Class: Unmanned Systems (UAV, UGV, USV)
& Tactical Ground Power

MILITARY PROVEN PROPULSION SOLUTIONS!





MISSION-READY POWER ENGINEERED FOR DEPLOYED OPERATIONS

The NWFC-1500 fuel cell operates flawlessly across demanding mission domains. Built tough for harsh deployed environments, it delivers steady, reliable power. Ready for any mission.

01. SYSTEM SPECIFICATIONS

PARAMETER	SPECIFICATION
Technology¹	Proton Exchange Membrane (PEM) Stack
Weight	1010 grams +/- 10 grams
Rated Power (Gross)	1500 W
Number of Cells	48
Fuel Type	Hydrogen, SAE J2719 Standard (or Better)
Cooling Type	Liquid
Hydrogen Consumption at Rated Power	1.8 grams/min 5.3 gpm STP
Hydrogen Consumption at Cruise Power (500 W)	0.5 grams/min 1.5 gpm STP
Hydrogen Supply Pressure	10-16 psig 69-138 kPa
System Dimensions (HxWxL)	3.6 x 2.7 x 8.2 in 9.144 x 6.858 x 20.828 cm
System Efficiency at Cruise (500 W)	53%
Time Between Overhaul²	500 hours
Service Life²	1500 hours

NOTE: This product is under continual development reserving the right to make product improvements as needed. | ¹Excludes Hydrogen Storage tank and pressure regulator. | ²Aircraft performance results varies by model.

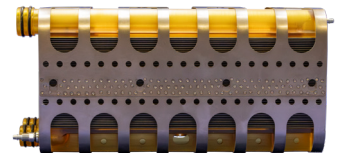


02. TACTICAL ADVANTAGES & SYSTEM ARCHITECTURE

- **Advanced Low-Observable Profile:** Engineered for a minimal thermal signature, providing a decisive advantage in covert ISR and high-sensitivity reconnaissance missions.
- **Rapid Deployment Readiness:** Features a Quick-start capability, ensuring rapid power-up for time-critical launches.
- **Energy Density Optimization:** Offers superior energy-to-weight ratios compared to traditional battery systems, allowing for increased "on-station" duration and environmentally responsible operations.
- **AS9100-Compliant Engineering:** American-made, purpose-built system designed for the rigors of flight, featuring a compact envelope and customizable layout for streamlined airframe integration.

03. OPERATIONAL BENEFITS

- **Stealth Optimization:** Low thermal signatures.
- **Reduced Logistics:** Low maintenance requirements and operating costs.
- **Configuration:** Lightweight, compact envelope designed for customizable internal airframe layouts.



PEM Fuel Cell application is dependent on airframe factors including: Aerodynamics, propeller, and operational concept. Please contact NWUAV for guidance.



RELIABLE



LIGHTWEIGHT



INSTANT ON



SCALABLE



CUSTOMIZABLE



REMOTE OPERATION



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