Hydrogen Small Unit Power (H-SUP)

Clean Reliable Energy

H-SUP: SILENT TACTICAL POWER

REPLACE VULNERABLE, LOUD GENERATORS WITH RELIABLE STEALTH TECHNOLOGY.

The H-SUP is a modular fuel cell engineered alongside the U.S. Government. It replaces loud, hot gas generators. By eliminating heat and noise, it keeps deployed troops safe. You get reliable power to recharge gear and extend missions without exposing your position.

01. Classification: Tactical Power Generator Hydrogen Small Unit Power
02. Origin: U.S. Government Co-Development
03. Platform Class: Modular Fuel Cell System

MILITARY PROVEN PROPULSION SOLUTIONS!

Northwest UAV 20 YEARS
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QUIET, COOL, AND SCALABLE FIELD POWER

The H-SUP delivers cool, silent, and scalable power for field deployments. Recharge critical electronics and support mission ops safely. You get versatile output options for all your tactical gear.

01. SYSTEM SPECIFICATIONS

PARAMETER	SPECIFICATION
Technology[1]	Proton Exchange Membrane (PEM)
Rated Power (Gross)	1500 W / 1200 W (Customer Available)
Rated Performance	24-29VDC / 45A Continuous, 50A Peak
Number of Cells	48
Hybridized Battery Operation	MIL-STD-3078, STUB Battery, BB2590 Series
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	10-20 psig
Weight	48.5 +/- 0.5 lbs
System Dimensions (Case/Closed HxWxD)	10.4 x 21.9 x 18.2 in 26.416 x 55.626 x 46.228 cm
Sound Rating (Max)	<60 dBA (measured at 7 meters)
System Efficiency at Cruise (500 W)	53%
Time Between Overhaul	500 hours
Service Life[3]	1500 hours

NOTE: This product is under continual development reserving the right to make product improvements as needed. | [1]Excludes Hydrogen Storage tank and pressure regulator.

Please contact NWUAV for guidance.

02. TACTICAL ADVANTAGES & SYSTEM ARCHITECTURE

- **Advanced Low-Observable Profile:** Engineered for near-silent operation with a minimal thermal signature, providing a decisive advantage in covert ISR and high-sensitivity reconnaissance missions.
- **Rapid Deployment Readiness:** Features a Quickstart capability, ensuring rapid power-up for time-critical usage.

03. OPERATIONAL BENEFITS

- **Simple Operation:** Push and Hold to start system and turn the switch to start power output.
- **Stealth Optimization:** Low audible and thermal signatures.
- **Reduced Logistics:** Low maintenance requirements and operating costs.

RELIABLE LIGHTWEIGHT INSTANT ON SCALABLE

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