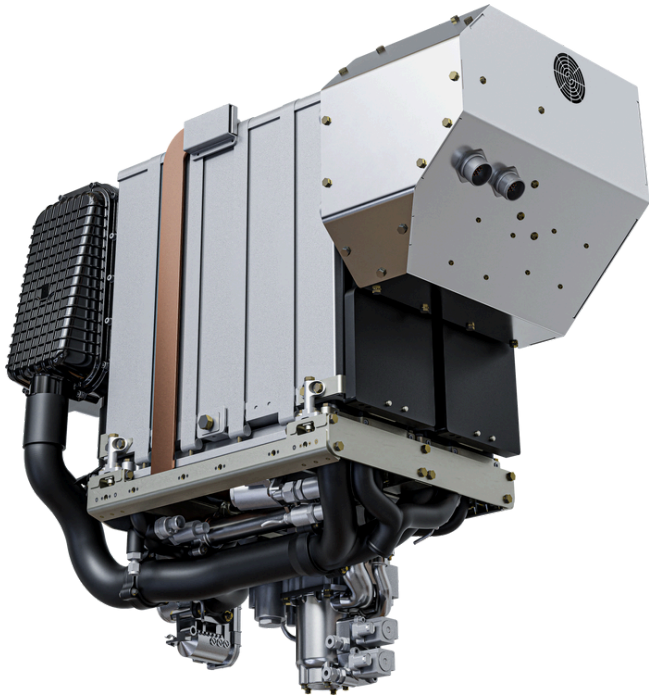




The SuperStack Flex is a customizable fuel cell power generation platform with 100-250kW net total continuous power and lightweight, optimized balance-of-plant, developed as a best-fit approach for Experimental, eVTOL and Unmanned Air Vehicles (UAV) with further potential applicability in marine and ground vehicle use cases.

The systems have been designed for maximum flexibility allowing for rearchitecting to meet a range of different power, performance, and packaging requirements, while maintaining exceptional pressure, mass flow rate, humidity, and temperature control.

The baseline SuperStack Flex configuration is comprised of 3 modules, that can be installed in physically separate locations on an airframe.

Single 275 Cell to Dual 455 Cell Stack options allow for various voltages (400V, 800V nominal), scalable power, and fault tolerant configurations.

FEATURES (150kW Example)

- Peak Net Power 175kW @ Sea Level ISA Standard
- Continuous Net Power / Module:
 - 150 kW @ Sea Level ISA Standard
 - 115 kW @ 14,000 feet ISA Standard
 - 85 kW @ 25,000 feet ISA Standard
- Specific Power 1 kW/kg
- Low Voltage Control Power +28Vdc per MIL-STD-1275
- HX Control: CAN bus and Analog
- E-Stop: CAN bus and Discrete

PHYSICAL (150kW Example)

- Weight: 150kg
- Dimension: 619mm x 670mm x 414mm (Dual Stack)
- Signal Connector: D38999
- Load limit: +/- 9G Horizontal, +/- 3.75G Lateral, +/- 4.5G Vertical

ENVIRONMENTAL

- Altitude: up to 25,000 feet (compressor limited)
- Temperature: -30°C – 50°C
- Humidity: 0 – 100%
- Service Life: >2,000 hours

P/N	HVDC	LVDC	HVDC CURRENT	OUTPUT POWER	SERVICE LIFE	COMMS
ZA 150-PGS	200 - 800 Vdc depending on configuration	18-35 Vdc	400 Amps Continuous	100-250kW Continuous Net Power	>2000 Hours	CAN bus



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