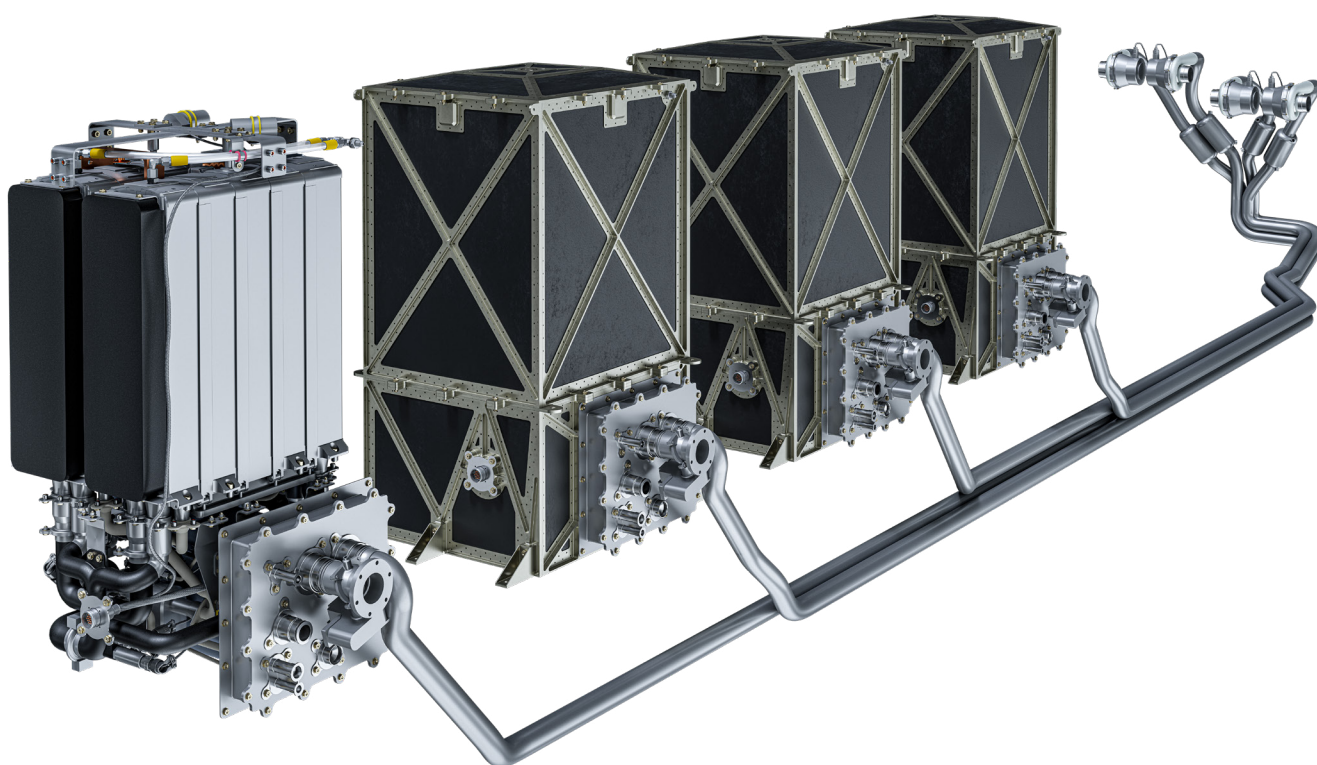


ZeroAvia's ZA600 power generation system (PGS) is the world's first fuel cell module designed to meet CS-E certification requirements. The innovative balance of plant is en route to full certification and commercialisation and is well advanced in the requirements validation testing campaign.

The ZA600 PGS system is made up of four individual fuel cell assemblies, with each individual module integrating two PowerCell 455 P10 fuel cell stacks electrically in series, giving a gross power output of 200kW at 300A, enabling the ~600V operation required by high-power electric motors, without the need for voltage regulation. The architecture offers strong redundancy in supporting a 600kW motor applications.



FEATURES

- Max Continuous Power: 200kW_e
- Operating Voltage: 910V – 570VDC
- Operating Current: 0A – 300A
- Gravimetric Power density: 1.4kW/kg
- Volumetric Power density: 0.78kW/L
- 55 – 60% overall system efficiency
- Maintenance overhaul frequency +10,000
- Continuous Power output under ±6G shocks in all directions
- Power output under transient -1.52G
- Safe under 18G crash loads forward
- Safe under 13.5G crash loads down
- Continuous Power during 60° Roll, Pitch and Yaw
- Single channel is 2x455 Fuel Cell Stacks

*All data based on design specifications, pending full validation

PHYSICAL

- Weight: 140kg
- Dimension: 580mm x 492mm x 902mm
- Connectors HV: Voltarius

ENVIRONMENTAL

- Operation temperature: -45°C to 65°C
- Coolant temperature: -30°C to 75°C
- Altitude: up to 25,000 feet (unpressurised area)
- Temperature and Altitude: DO160-G – CAT B3
- Vibration: DO160-G – CAT S2
- Water proofness: DO160-G – CAT S
- Fire flammability: DO160-G – CAT R
- Emission RF: DO160-G – CAT B
- Lightning: DO160-G – CAT A
- ESD: DO160-G – CAT



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