

ZeroAvia's High-Temperature Proton Exchange Membrane (HTPEM) fuel cell stack is a turbo-air cooled modular system which offers increased power output and energy density with reduced weight, supporting a variety of traditional aviation and VTOL applications.

Developed by HyPoint (acquired by ZeroAvia in September 2022), these HTPEM fuel cell stacks deliver record power-levels without an essential loss of efficiency. A single power module offers nominal power output of 20kW.

### FEATURES

- 160 FCs based on HTPEM BASF MEAs
- Lightweight aluminum BPPs
- Highly conducting protective coating
- 250kPa pressurized reactant gases
- Output voltage: 80–120V depending on load
- Nominal power: 20kW
- Specific power at system level for 500kW system > 2,000W/kg
- Peak current density: 1.2A/cm<sup>2</sup>
- Integrated air cooling system

### PHYSICAL

- Dimension: 535mm x 350mm x 110mm
- Connectors: HV



### ENVIRONMENTAL

- Operation temperature: 135°C to 185°C
- Altitude up 35,000 feet (unpressurised area)
- Temperature and Altitude: DO160-G CAT B2





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