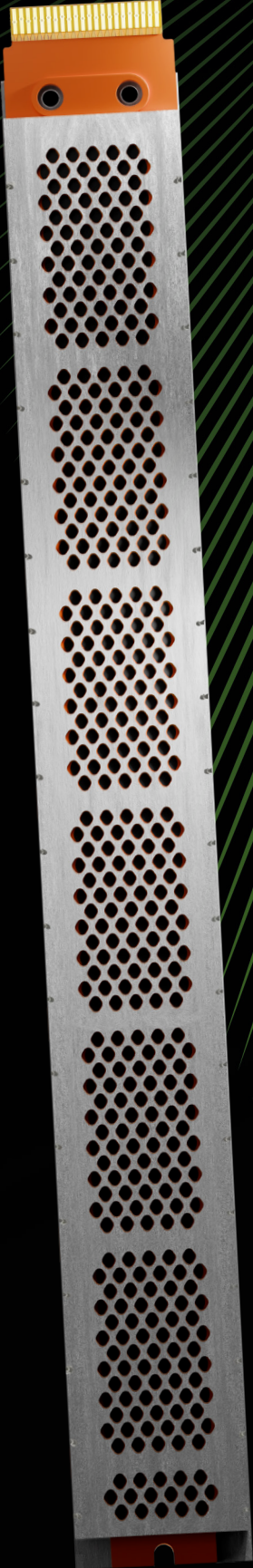


Lamina[®]

HYDROGEN MICRO FUEL CELL



Lamina[®] is our ultra-thin hydrogen engine, a micro fuel cell built for designers and developers who need serious power in a minimal footprint.

At its core, Lamina[®] is a PEM Technology with an open collector, enabling a degree of compactness and simplicity that conventional stacks simply can't match.

Lamina[®]

HYDROGEN MICRO FUEL CELL

Mechanical Characteristics

- Dimensions: 238 × 27 × 3.8 mm (L × W × H)
- Weight: 90 g
- Installation: Any orientation
- Form factor: Ultra-thin, integration-ready design

Designed for seamless mechanical integration into embedded systems and compact housings.

Electrical Performance

- Operating Voltage: 3.0 - 4.5 V
- Peak Power: 12 W
- Nominal Power: 10 W
- Minimum Continuous Power: 4 W

Efficiency & Utilization

- Fuel Cell Efficiency: 49%
- Hydrogen Utilization: 99%

Lifetime Performance

- End of Life (EOL) Power: 8 W
- Expected Lifetime: 3,000 h

Environmental Operating Conditions

- Relative Humidity: 15–60 % RH
- Lamina[®] Temperature Range: 30–65 °C
- Minimum Starting Temperature: 3 °C

Required Hydrogen Purity

- 99,97 % (3,7) (SAE-J2719)



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