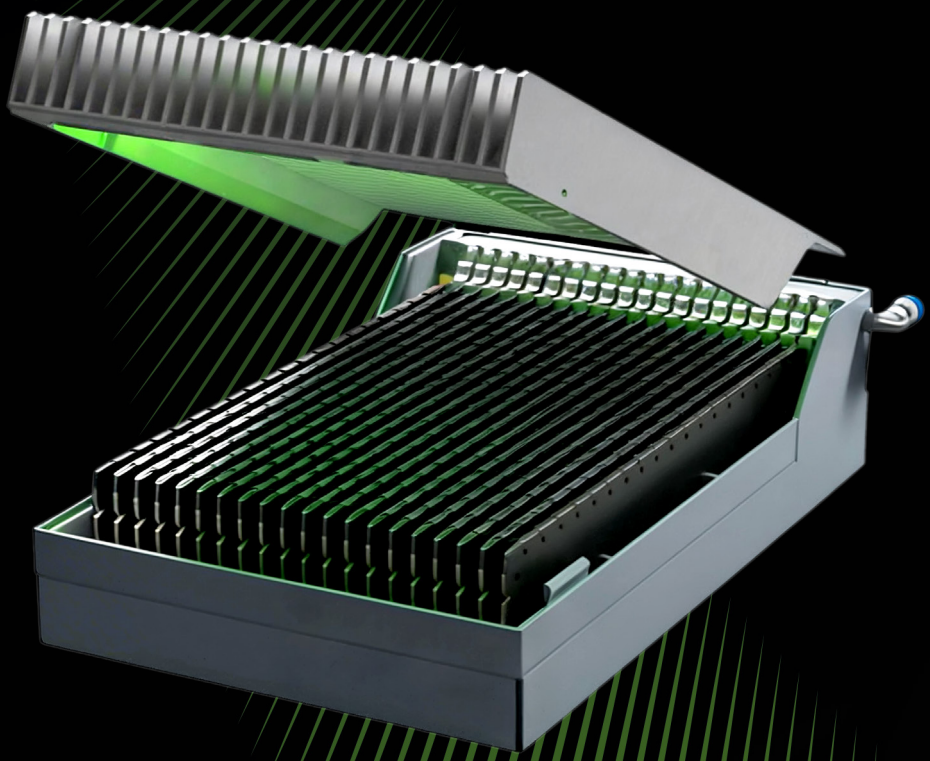
ModularKIT-20LS

SCALING POWER BY DESIGN



The 20LS configuration is our first fully assembled reference system based on the ModularKIT architecture. It integrates 20 Lamina® fuel cell units into one unified mechanical and electrical system using standardized interfaces.

The result is approximately 180 W nominal output through parallel module integration.

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Modular Power Architecture
Each Lamina® operates as an independent FuelCell unit, while the ModularKIT infrastructure manages:

- Hydrogen distribution via common manifold design
- Electrical aggregation through modular PCB topology
- Defined power routing and connector interfaces
- Structured mechanical alignment and fixation

Power scaling is achieved by controlled repetition of identical units within a predefined architecture. No redesign of the core fuel cell or system layout is required when increasing module count within the defined platform boundaries.

System Overview

- Total System Output: 180 W nominal
- Architecture: Parallel modular fuel cell assembly
- Core Technology: Lamina® PEM Micro Fuel Cells
- The reference system aggregates multiple Lamina® units into a unified power platform using our standardized mechanical, electrical, and fluidic Modules.

Lifetime Performance

- Beginning of Life BOL Power: 180 W
- End of Life EOL Power: 144 W
- Expected Lifetime: 3,000 h

Environmental Operating Conditions

The modular kit is designed for start-up at ambient temperatures down to 3 °C. During operation, the cooling system shall maintain the Lamina® fuel cell within its internal operating temperature range of 30 °C to 65 °C and a relative humidity of 15-60% RH.

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