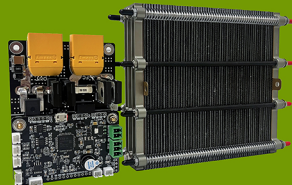
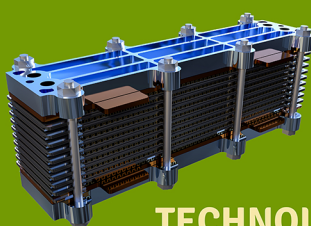


# HIGH-PERFORMANCE LIGHTWEIGHT PEM FUEL CELL STACK



## TECHNOLOGY OVERVIEW

This set of proton exchange membrane (PEM) fuel cell intellectual properties (IPs) offers a comprehensive solution, including a patented stack design, optimised assembly processes, and a performance boost control system. This advanced control technology optimises fuel cell output, ensuring high performance and efficiency in air-cooled stacks. With 2-3 times higher energy density than lithium batteries and the ability to refuel in just a few minutes, the solution is ideal for weight-sensitive applications such as drones, telecommunications, and remote power supplies, as well as environments that are sensitive to air pollution.

## TECHNICAL SPECIFICATIONS

Our single fuel cell stack solution can cover a power range from tens of watts to a few kilowatts, making it suitable for a wide range of applications. Furthermore, with our multi-stack technology, the system's capacity can be significantly increased by grouping several stacks together. Our stack achieves an impressive power density of approximately 1-1.5 kW/kg.

## UNIQUE VALUE PROPOSITION

**Optimised Fuel Cell Design:** With over ten years of iterative development, our air-cooled fuel cell system has been optimised at every level – from stack component design to assembly processes and operational control methods. This allows us to achieve a higher power density compared to conventional methods.

**Zero Emissions:** Due to fuel cells' inherent nature, our solution operates with zero emissions, offering a clean energy alternative.

**Ideal for Weight-Sensitive Applications:** Combining the lightness of hydrogen with our advanced technology, our fuel cell system provides a significant advantage for weight-sensitive applications where a long-lasting, clean power supply is critical.

## POTENTIAL APPLICATIONS

Our lightweight PEM fuel cell system is designed for weight-sensitive and remote power applications, providing an efficient alternative to traditional power generators and lithium batteries.

The potential applications include:

- Drone
- Remote power supply
- Portable or light vehicle power

