

TECHNOLOGY

CHIP-SCALE POWER

With a proprietary membrane electrode assembly (MEA), ELEON's fuel cell is a breakthrough technology that no other manufacturer has accomplished. Integrating our MEA's with other simple building block structures, we build chip-scale fuel cells as the principal energy sources for our solutions, which are then combined in parallel or series to meet specific power and voltage requirements.

MEMBRANE

ELEON's proprietary MEA provides high energy density power to the fuel cells. The MEAs are manufactured inexpensively and in large quantities on a single wafer. The individual membranes form the key component for the assembled fuel cell.

RESERVOIR

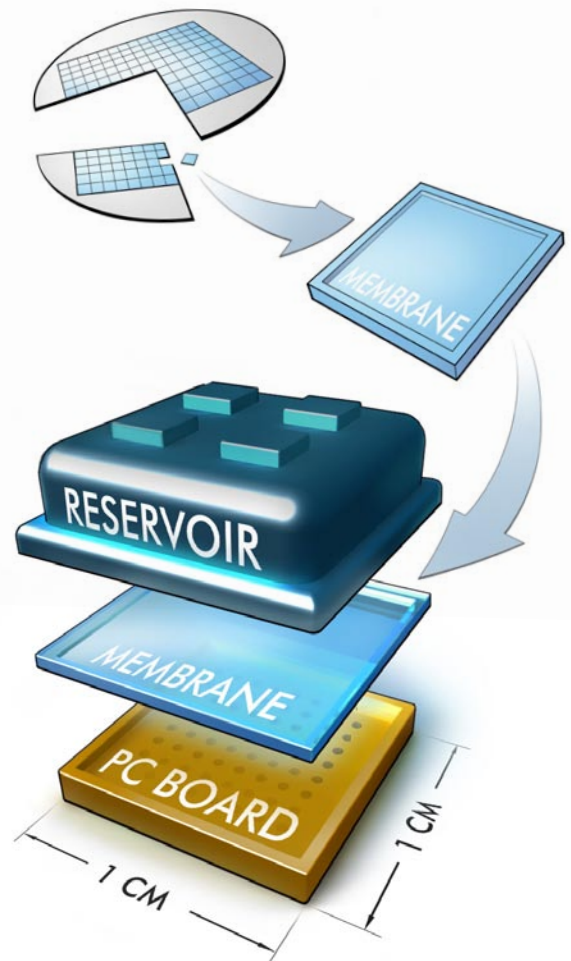
A reservoir stores methanol - an inexpensive and clean fuel for the power supply. ELEON will size the reservoir to meet the operating life requirements of the product. Fuel is stored in a variety of reservoir sizes without the need for any pumps or valves.

PC BOARD

The PC board is a low cost platform for the completed fuel cell with I/O terminals printed for use during assembly of final integrated power supplies. Our PC boards are made from readily available standard materials.

SPECIFICATIONS

- Fuel:** Methanol
- Voltage:** .5 V - 11V
- Power Output:** 10 - 50 microwatts
- Size:** 1 cm² footprint



ABOUT ELEON™

ELEON builds energy system solutions to cost-effectively provide *Power for the Life of your Product*. Much smaller than micro-fuel cells, our power supplies are combined with storage, generation, and charge control devices to meet specific power requirements for wireless network, consumer, and life safety products.