

## Fuel cell products

DCH Technology Inc. of the United States has developed a portable fuel cell, which is simple, quiet and reliable. The new Enable™/LANL fuel cell has relatively high energy densities and does not require active cooling or humidification. The cell can operate at low stack hydrogen pressure, is not sensitive to orientation and does not need air or water pressurization or forced flow.

Hydrogen for the 12 W proton exchange membrane (PEM) fuel cell is supplied through a central manifold and flows radially outward over one side of the membranes. Oxygen from the air diffuses into the stack from the periphery and flows radially inwards over the other side of the membranes and diffuses outwards to the surface of the stack where it evaporates into the atmosphere. This configuration limits the ability of water to escape easily from the stack thereby preventing the PEM from drying out, even at relatively high operating temperatures and current densities. The components are symmetrical so part fabrication is amenable to mass production. *Contact: DCH Technology, 27811 Avenue Hopkins, Suite 6, Valencia, CA 91355, the United States. Tel: +1 (661) 7758 120; Fax: +1 (661) 2579 398; E-mail: vickie@dcht.com.*

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