



MAG POWER FUEL CELL

**PORTABLE. CLEAN. QUIET. POLLUTION-FREE
POWER AVAILABLE ANYWHERE ANYTIME**

DESCRIPTION:

Developed by Canadian scientists, MagPower fuel cell's (MPFC) groundbreaking technology provides one of the most reliable, efficient and cost effective portable power supplies available today.



DISASTER RESPONSE PROTOTYPE: POWER, LANTERN, RADIO

MagPower is ideal for anyone involved in remote/expeditionary operations or travelers who are not on grid power. The MPFC is also ideally suited as a back-up power source.

This pioneering technology is capable of powering lamps, mobile phone chargers, laptops, communication devices or low-energy coolers, all using a unit the size of a small battery. There is no noise or pollution emitted from the unit and it runs almost entirely on salt water, air and magnesium plates.

Unlike conventional batteries, the MPFC is completely recyclable, safe, easy to transport and safe to use in any environment. This fuel cell can sit idle for years and is ready to activate when needed.

APPLICATIONS:

- Expeditionary Operations
- Disaster response
- Small boat and lifeboat emergency power
- Emergency power for homes, schools, hospitals
- Portable power for camping, mining, leisure
- Emergency communications power
- Power source for rechargeable lithium batteries or solar cell batteries

BENEFITS:

• Safely operate and store	• Economical
• Portable and quiet	• Reliable
• Connect in series to increase power	• Recyclable
• Extremely easy to operate	• Compact
• Indefinite dry storage until activated	• Scalable

TECHNOLOGY:

Our fuel cell simply runs on saltwater and magnesium and uses the energy created by the electrochemical reaction that occurs between magnesium and oxygen (air) in the presence of saltwater to generate electricity.

Proven metal-air technology harnesses the power of magnesium – a highly reactive material that is also the 8th most abundant element in the earth's crust. The magnesium is fed into the cell in anode plates and immersed in saltwater electrolyte (or any saline solution) that reacts with the oxygen in the air cathode, causing and electrochemical reaction and an electrical current.

*MPFC's construction allows easy transportation thus avoids safety and transportation restrictions of lithium batteries:
air, ground, and consumer*

PROTOTYPE SPECIFICATIONS:

• 6 Volts (6 Watts)	• 10" (25.5 cm) x 5" (12.7 cm) x 10" (25.5 cm)
• 0.5 - 2.0 Amps	• 20+ year dry storage
• Dry weight: 4.8 lbs (2.2 kg)	• Operating temp: -4 F (-20 C) to 140 F (60 C)
• LED flashlight, lantern, AM/FM radio	• Multiple USB charging ports

**60 hour fuel duration: simply replace cartridge (5 minutes)
for additional 60 hours – repeat for months of power**

**Larger fuel cells ie 12 Volt (<200 W) and Smaller Hand Held
Recharger is under Development (enhanced recharging banks only)**

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