



PORTABLE POWER MAGPOWER BATTERY

PORTABLE CLEAN, QUIET, POLLUTION-FREE POWER

DESCRIPTION

Developed by scientists in Vancouver, MagPower Cell's groundbreaking technology provides the one of the most reliable, efficient and cost effective portable power available today.



Essentially, the Cell uses the energy created by the electrochemical reaction that occurs between magnesium and oxygen (air) in the presence of saltwater to generate clean, quiet, pollution-free electricity.

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

This pioneering technology is capable of powering lamps, mobile phone chargers, laptops or low-energy mini coolers, all using a unit the size of a small battery pack. There is no noise or pollution emitted from the unit and it runs almost entirely on salt water, air and magnesium plates used in the cell. And because of the patented additive pioneered by MagPower's developers, the Cell won't experience any of the problems associated with the build up of hydrogen in other fuel cells.

Unlike conventional batteries, the MagPower Cell is completely recyclable, easy to transport, and safe to use in any environment. It can be scaled up or down to fit many requirements. Indeed, it could even be scaled down to fit the size of a hearing aid battery.

BENEFITS

- Economical
- Portable
- Scalable
- Quiet
- Safe
- Compact
- Indefinite Storage
- Recyclable
- Reliable

THE TECHNOLOGY

Our Cell simply runs on salt water and magnesium. It uses energy created during the electrochemical reaction between magnesium the salt water electrolyte and oxygen (air) to generate clean, quiet, pollution-free electricity.

Proven metal-air technology harnesses the power of magnesium – a highly reactive material that is also the eighth most abundant element in the earth's crust. The magnesium is fed into the Cell in anode plates and immersed in salt water electrolyte that reacts with the oxygen in the air cathode, causing an electrochemical reaction and an electrical current.

A second breakthrough comes in the form of a specially-developed additive in the electrolyte that controls the build up of hydrogen in the device. Hydrogen, a common by-product of the electrochemical reaction in metal-air fuel cells causes a loss of efficiency and power in metal-air fuel cells. The patented additive supplied in the electrolyte cuts the build-up to ensure that the MagPower Cell is the only metal-air fuel cell to sustain power and efficiency almost indefinitely.

APPLICATIONS

- Disaster response
- Emergency power source for homes, schools or hospitals
- Remote Standby power
- Primary power source
- Portable power for camping and leisure

CONSUMABLES

- MagPower offers supplies of both magnesium anodes and electrolyte additive
- The magnesium anodes are supplied in packs
- The electrolyte powder



CONTACT

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