

# HydroPak<sup>®</sup>

## Portable off-grid fuel cell power

- Uses ultralight, high energy capacity cartridges
- No toxic emissions: can be used indoors
- 60W-120W DC output





# HydroPak®

## Portable off-grid fuel cell power supply

### UNIQUE FEATURES

- Ready-to-use power when needed
- High-capacity / lightweight energy
- Silent operation
- Indoor use / no toxic emissions
- No self-discharge or memory
- Extra-long cartridge shelf-life

The **HydroPak®** is a portable power system that delivers electricity using high energy density hydrogen fuel cell technology. Using a special “hydrogen on demand” system, The **HydroPak®** is able to produce its own hydrogen and electricity when required, while its cartridges do not contain any hydrogen when stored or between uses. For the same weight, one **HydroPak®** cartridge can deliver 5 times more energy capacity than a typical lead acid battery, is more environmentally friendly, and can be stored for years without losing its potential energy.

The **HydroPAK®** offers a high capacity energy solution for off-grid recreational or professional activity, black-outs or critical emergencies. Unlike diesel generators, the fuel cell charger runs quietly and does not emit any toxic emissions, meaning it can be used indoors to power various devices during power outages.



Most of the electronic devices used outdoors today operate on battery power and provide a day's worth of operation on a single charge. At the end of the day they must be recharged – but this can be difficult in places with no electric grid access.



Every year thousands of relief workers go to disaster stricken regions of the world, many of which have lost power connectivity. The **HydroPak®** could be of significant assistance for charging basic electronic devices and provide long-lasting lighting.



#### RECREATIONAL OUTDOORS & MARINE

- Anchoring-out power for lighting
- Off-grid entertainment
- Emergency power for life rafts
- Sailboat battery charging
- Camping / Adventure travel
- Recreational Vehicles (RV)
- Remote “off-the-grid” dwellings
- Remote use of power tools

#### OFF-GRID PROFESSIONALS

- Communication relays
- Pump and switching stations
- Weather monitoring stations
- TV reporting in remote areas
- Security systems
- Data/communication systems
- Yard tools, power tools charging
- Outdoor maintenance lighting

#### EMERGENCY POWER

- Emergency power during natural disasters
- Recharging communication equipment
- Recharging engine batteries
- Emergency lighting & shelters
- Home medical equipment
- Refrigeration of critical medicines
- Communication/TV/radio
- Home computers and laptops

#### HydroPAK® system specifications

Rated DC output	DC only (AC inverter optional)	60 W
Max DC output	(DC only for 5 seconds)	120 W
Power outlets	2 X USB 2.0	5V 500 mA
	1 X 12V cigar lighter	12V 5A
Startup Time	Room temperature	120 s
Operating Environment	Temperature	0°C to 35°C
Dimensions	System size H x L x W	32 x 26 x 13 (cm)
Total System Weight	System with no cartridge	2.5 kg
	System + cartridge (dry)	3.1 kg
	System + cartridge (hydrated)	3.5 kg



#### HydroPAK® cartridge specifications

Energy Capacity	Runtime @ 60W / 30W / 10W	3.5h / 5.5h / 11.5h
	Net energy	200 Wh
Cartridge Storage	Long term storage (dry)	20+ years (not tested)
	Storage at room temperature (post-activation)	30 days
Cartridge Activation Method	User-activated via water bladder (included)	415 ml water
Dimensions & Weight	Weight (dry)	0.6 kg
	Weight (hydrated)	1 kg
	Size H x L x W	23.5 X 10 (cm)



\* The Manufacturer reserves the right to change details regarding the specifications of this product.