

HYDROMAX 150

PORTABLE FUEL CELL POWER



Applications

- 24/7 electric power for remote sites for sensors, cameras, water metering (flood-measuring posts), flow-metering, tsunami early warning systems.
- Seismic monitoring, early warning systems for forest fires, measuring radioactivity.
- Meteorological monitoring: climate data and wind measurement devices for planning wind parks.

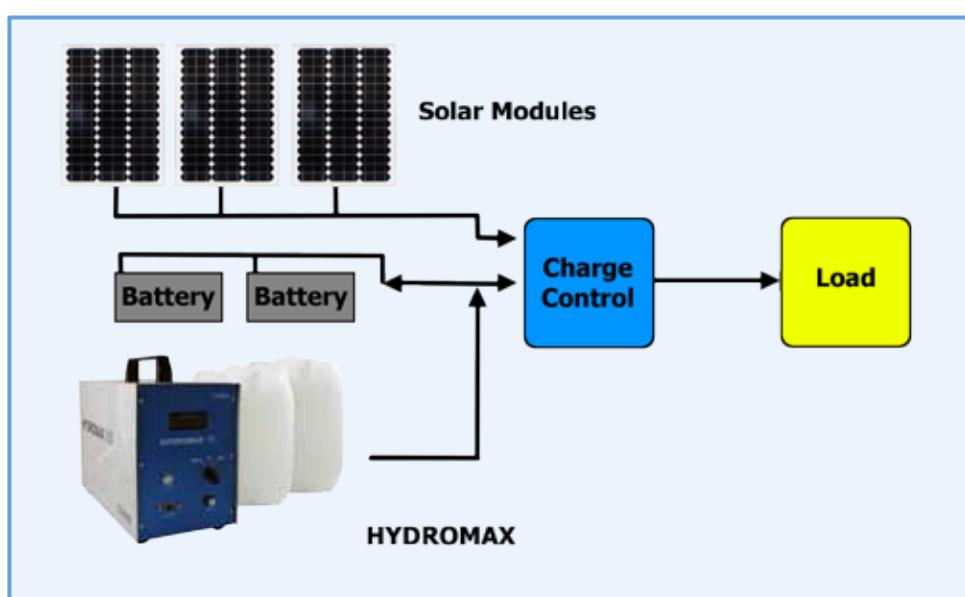
Advantages

- World's first fuel cell to use a non-flammable fuel system (unlike highly flammable, low-flashpoint pure methanol fuel, used by EFOY systems)
- Quiet, no moving parts
- 100% reliable, always available. HYDROMAX will produce electricity around the clock.
- Combinable with solar PV systems – can team up with new or existing solar systems in hybrid configurations.
- Extended operations: 1 fuel tank can scale from 3kWh to 10kWh, and additional modules thereof.
- Automatic battery charge level maintainer
- Remote monitoring possibility
- Environmentally friendly - extremely efficient
- Mobile, ultra-light and compact as compared to industrial batteries.



How it works:

- HYDROMAX fuel cell system connects to the battery that powers the actual device. The HYDROMAX continuously monitors the battery charge, thanks to its integrated voltage regulator. Should voltage drop below a predetermined threshold, the HYDROMAX kicks in to recharge the battery fully automatically, preventing complete discharge of the battery and thus maintaining longer service life. It then reverts automatically to standby mode.
- A fuel cell generates electricity entirely without moving parts or combustion. Moreover the fuel supply used in HYDROMAX is uniquely non-flammable.
- HYDROMAX can team up with an existing PV solar system. If the weather allows the solar module to produce ample electricity, the solar system takes over. The fuel cell only kicks in when insufficient power is being produced.



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SPECIFICATIONS

Parameter	HYDROMAX
Max. charging power per day	4320 Wh/day 360 Ah/day
Max. nominal power	180 W
Norminal voltage	12 V
Max. norminal charging current at 12V	15 A
Recommended battery capacity at 12V	100-350 Ah
Weight	10 kg
Switch-on voltage	12 V
Switch-off voltage	13.8 V, 14.2 V, 14.8 V
Switch-off current	<3 A
Switch-on delay	10 s
Required start-up voltage at 12V	8 V
Noise level (at 10m distance)	25 dB(A)
Norminal fuel consumption	1.56 L/kWh
Quiescent current draw	20 mA
Operational temperature range	- 10 °C to 40 °C
Ambient temperature for startup	- 10 °C to 40 °C
Storage temperature range	- 10 °C to 40 °C
Max recommended altitude	Up to 3000 m
Dimensions (L x W x H)	400 x 185 x 250 mm
Space requirement (L x W x H) incl. Fuel Cartridge	Min.: 600 x 300 x 320 mm

Fuel Cartridges	HydroFuel	HydroActivator
Volume	5 L/10 L	5 L/10 L
Weight (Dry)	1.4 kg / 2.8 kg	2.25 kg / 4.5 kg
Nominal capacity	3.2 kWh / 6.4 kWh	Consumed 1:1 with HydroFuel
Dimensions (W x D x H)	145 X175 X 265 mm/ 200 x 230 x 300 mm	145 X175 X 265 mm/ 200 x 230 x 300 mm

A TECHNOLOGY REVOLUTION

The HYDROMAX converts the proprietary Horizon solutions directly into electrical current. This direct conversion is performed with no moving parts, completely silently and without creating any pollutants. The fuel cell is therefore extremely efficient, clean and environmentally friendly.

Generators are very loud and do not just disturb your own relaxation but also that of any neighbors. The emissions they produce have an unpleasant smell and are environmentally harmful. In contrast, the HYDROMAX is as quiet as a whisper and emission-free -- which is good for you and for the environment.

