

BOC Hymera Hydrogen Fuel Cell Generator.

150W hydrogen fuel cell power generator.



Description The Hymera Hydrogen Fuel Cell Generator is a hydrogen powered fuel cell system capable of delivering 150W of clean, silent DC or AC portable power for off-grid locations and is ideally suited to today's high efficiency electrical applications such as LED lights, LED TVs, laptops, and small refrigerators.

When used in conjunction with the companion BOC 54 ZH portable hydrogen fuel cylinder, the BOC Hymera can provide almost 3 kWh of electrical energy from the 10kg cylinder, which is enough to support a 100W load for almost 30 hours.

The 54 ZH is a user friendly integrated 'energy source' removing the need for pressure regulators and safe hand operation connections. The 54 ZH is available throughout BOC distribution centres.

Advantages

- Clean, silent and highly portable
- Minimal service requirement
- Ideally suited to today's high efficiency electrical applications such as LED lights
- For loads less than 50W, substantially lower cost of ownership compared to diesel or petrol generators

Sample Applications When used with the 54-ZH portable hydrogen cylinder:

- 2 x 40W LED task lights (equivalent to a 2 x 400W halogen) for nearly 40 hours
- 20W LED TV for nearly 80 hours
- Power Tool charging
- Soldering irons
- PCs
- Small fridges
- Lead-acid battery charging

Specifications

Rated output power (W) continuous	150W AC/DC
Peak output power (W) short term	200W
AC output voltage	230Vac / 110Vac
AC output voltage waveform	Synthetic Sinewave
DC output voltage	13.3 - 14.2 V
Maximum DC output current (A)	12 A
Required inlet hydrogen pressure range	4-10 bar
Purity rating of fuel gas	High purity
Start up time (typical)	35 secs
Typical gas consumption rate @ 100W	~1 litre/min
Efficiency (based on lower heating value)	> 50% @ 100W and above
Minimum sustaining duration w/o hydrogen with fully charged internal battery	2 mins
Operating temperature range (degrees C)*	0-35°C
Humidity range (%) RH	0 – 95 (%) RH
IP rating (ingress protection)	IP43
Lifetime accumulative working hours or Start/Stop cycles*	1000 Hours/450 Start/Stop
Dimension (LxWxH in mms)	450 x 180 x200
Volume (cubic meters)	< 0.0165m ³
Weight (kg)	7.38 kg
Noise Level db @ 1 m distance	60dB max 45dB typical

* for more information please contact BOC

BOC

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