

Sample applications and estimated runtimes

Application	Industrial H2 cylinder (45 litres @ 175 bar, 70kg)	H2 GENIE cylinder (20 litres @ 300 bar, 23kg)
4 x 50W LED flood lights (equivalent to 2 x 500W halogen lights)	~ 50 hours	~ 35 hours
50W professional security camera system	~ 8 days	~ 6 days
Small site office (lights, laptop, hot water for tea/coffee)	~8 days	~6 days
10W traffic light	~5 weeks	~4 weeks
4W alarm system	~3 months	~ 2 months

Other applications

- Battery extender for UPS systems
- Domestic emergency backup power for lights, computer, fridge etc.
- Noise monitoring system
- Security lights
- Advertising displays

Operating modes

Manual mode – typically used to run DC applications, either directly or by placing a 12V/24V lead-acid battery between HYMERA and the load. Manual mode requires an operator to start and stop the unit.

Automatic mode – HYMERA is connected to an external battery which is constantly or periodically placed under load. The HYMERA unit monitors the charge state of the external battery and when the battery reaches a pre-set discharge level, HYMERA automatically starts to recharge the battery using charge settings, such as voltage and duration, that can be set by the user.

Remote operation mode – HYMERA can be switched on and off remotely, either via a GSM modem controller or by a local controller. HYMERA outputs a continuous stream of data for troubleshooting and process optimisation.

For the system integrator

- Single-side air inlet/outlet to simplify integration into an OEM system or cabinet (camera, lighting unit, environmental monitoring system, etc.)
- Remote start/stop
- Serial data output for fault and service monitoring and process optimisation
- Automatic shut-down in the event of a system failure or when out of hydrogen
- Programmable intelligent battery charging parameters
- Output voltage can be set on the front panel during start-up (10V to 30V)
- Resettable overload cut-out
- Built-in diagnostics
- External battery voltage display on the front panel

Specifications

Rated output power (W), continuous	200W
Peak output power (W)	200W
DC output voltage (V)	10VDC to 30VDC
Required inlet hydrogen pressure range	4 bar to 7 bar
Typical start-up time	1–2 minutes
Fuel	High purity hydrogen (99.95%)
Operating temperature range (°C)	-10 °C to 40 °C*
Noise rating	45dB at 5m distance
IP rating	IP43
Weight (kg)	12.7kg
Dimensions (mm)	H257 x W355 x D250

*Wider operating temperature range is possible depending on application.

BOC Limited

Customers Service Centre, Priestley Road, Worsley, Manchester M28 2UT, United Kingdom
Phone +0800.111-333, Fax 0800.111-555, custserv@boc.com, www.BOConline.co.uk

BOC Limited registered office, The Priestley Centre, 10 Priestley Road, Surrey Research Park, Guildford, GU2 7YJ, England. Number 337663 - English Register. Authorised and regulated

by the Financial Conduct Authority. The stripe symbol and the letters BOC are registered trade marks. Reproduction without permission is strictly prohibited. © BOC Limited 2016



Safe X System AB Dalvik 519 791 92 Falun Sweden
Phone: +46 10 7060920 Mail: info@safexsystem.se