

Hydrogen Generator

HGL 100H

Clear UI & Smart system

Built-in functions

- Auto system check.
- Pressure safety control.
- H₂ leakage detection.
- Over pressure detection.
- Over temperature detection.

Powerful core

Patented cell design

- Low power consumption.
- High Hydrogen purity.



Other friendly designs

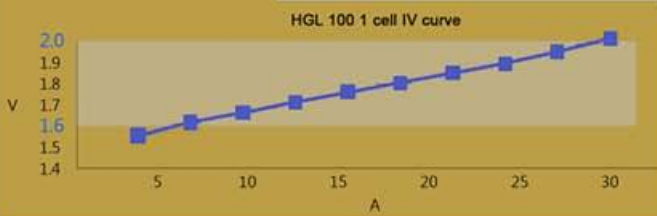
- Tumbling protection.
- Compact size.
- Super slim footprint.



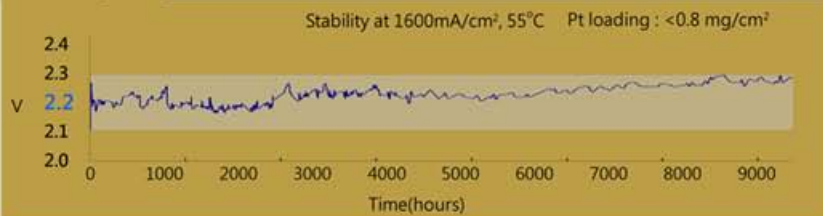
GOC (General Optics Corporation), a global provider of key components for both Hydrogen utilization and production, has developed the **HO-PEM** product line for onsite Hydrogen generation with zero emission of greenhouse gases. **HGL series** are models for laboratory instrumentation , such as Gas Chromatograph. **HGL series** feature a low power consumption, rapid startup and high gas purity. Based on patented technologies, **HGL series** provide superior performance and excellent stability.

Cell performance

Current-Voltage Curve



Stability



* We do not make any claims about performance nor do we guarantee any performance specs. The actual performance obtained by a customer will depend on choices made regarding the various operating variables.



Hydrogen & Fuel Cell Solutions

No.11 , Zihciang 1st Rd., Zhongli City , Taoyuan County 32063 , Taiwan

TEL : +886-3-455-5465 FAX : +886-3-455-3805 <http://www.GOCenergy.com>

Hydrogen Generator

HGL 100H

HGL series are cost-effective solutions for delivering Hydrogen gas with safety built in to every component. The cylinder-free system eliminates the expensive gas infrastructure and storage safety concerns, and requires only de-ionized water to produce a constant supply of Hydrogen gas. **HGL series** are the preferred choice of laboratories requiring onsite Hydrogen generation with quality, reliability and safety.

R&D Teams



Applications



Typical Properties ■

Property	Unit	HGL-100H
Purity	%	99.99
Delivery Pressure (Max.)	Bar	5
Gas Flow Rate (Max.)	cc/min	100
Pressure Safety	-	dual
System Check	-	yes
Leak Detection	-	yes
Water Purity Required (Resistivity)	MΩ · cm	1
Water Consumption	cc/min	0.12
Power Consumption	Watt	<90W(100~240V)
Dimension(LxWxH)	cm	45x15x30
Weight	Kg	11.7
Operating Temperature	°C	5 ~ 50
Outlet Port	inch	1/8

1 Plasma cleaner

2 Gas chromatography(GC)

■ Typical properties are based on our internal test results, not guaranteed values.

Typical properties may be updated due to technology development.



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