

# Hydrogen Generator

HGL

300  
600  
1000

## Clear UI & Smart system

### Built-in functions

- Auto system check
- Safety pressure control
- H<sub>2</sub> leakage detection
- Over pressure detection
- Over temperature detection

## Powerful core

### Patented cell design

- Low power consumption
- High hydrogen purity.



## Other friendly designs

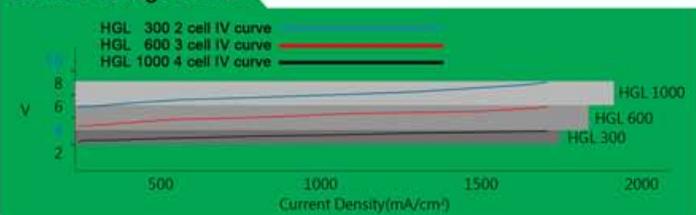
- Tumbling protection.
- Compact size.
- Super slim footprint.



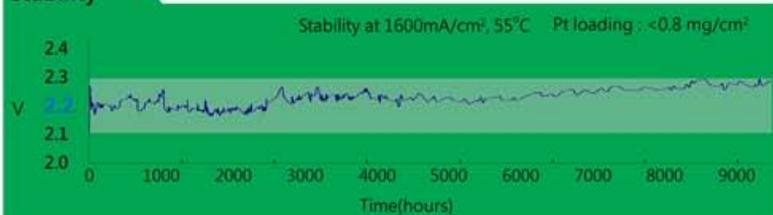
GOC ( General Optics Corporation ), a global provider of key components for both Hydrogen utilization and production, has developed the HO-PEM product line for onsite Hydrogen generation with zero emission of greenhouse gases. HGL series are models for laboratory instrumentation , such as Gas Chromatograph. 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.



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**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-300H/U	HGL-600H/U	HGL-1000U
Purity	%	dew point < -66°C , O2 < 5 ppm		
Delivery Pressure (Max.)	Bar	H type:5bar ; U Type:10bar		
Gas Flow Rate	cc/min	300	600	1000
Pressure Safety	-	dual		
System Check	-	yes		
Leak Detection	-	yes		
Water Purity Required (Resistivity)	MΩ · cm	1		
Input Voltage	V	AC 100~240		
Water Consumption	cc/min	0.33	0.58	1
Power Consumption	Watt	<180W	<290W	<430W
Dimension(LxWxH)	cm	50 x 25 x 41		
Weight	Kg	17	17.5	18.5
Operating Temperature	°C	5 ~ 50		
Outlet Port	inch	1/8		

- 1 Hydrogen plasma cleaner
- 2 Gas quality monitoring
- 3 Fuel cell test station
- 4 Gas chromatography(GC)
- 5 Metal Hydride refilling

Typical properties are based on internal test results, not guaranteed values, and may be updated due to technology development.