

Hydrogen Generation Rack Mountable HG Module



Specifications (HG03)

Nominal Flow Rate:	up to 6 slpm (0.3 Nm ³ /hr)
Supply Pressure:	up to 17 barg (250 psig)
Purity:	up to 99.995%
Voltage:	100 to 250 VAC 24 to 60 VDC
Mounting:	EIA 19" Rack

Applications

- ❖ Telecom/server back-up
- ❖ Combined Heat & Power
- ❖ Rural and remote power
- ❖ Transportation
- ❖ De-carbonize fuels

Designed for integration with standard rack-mounted telecom back-up systems, the HG module is easy to use and automatically controlled. It accepts a wide range of electricity and water and produces all the fuel required for fuel cell back-up power applications. Σ h! HG modules can be configured to directly accept DC power from renewable sources to provide the only truly zero emission fuel solution.

Why Σ h!

Experienced, proven and flexible:

- ❖ Complete hydrogen generation, storage and fuel delivery systems
- ❖ Modules available to integrators
- ❖ Experienced, innovative team
- ❖ Design for specific applications

Unique Benefits

- ❖ Fully automatic
- ❖ Convenient
- ❖ Easy to install, use and maintain
- ❖ Portable/Transportable
- ❖ Rack-mountable
- ❖ Design for indoor use
- ❖ On-site (no delivery)
- ❖ Flexible and scalable

ElectricHydrogen delivers innovative hydrogen products for a broad and growing market in the energy sector. Σ h! products and services help accelerate the commercialization of fuel cells by providing convenient and easy to use hydrogen supply at or near the point of use, avoiding the cost and complication of delivering and installing hydrogen cylinders in remote or indoor environments.

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electric hydrogen inc.

Onsite Hydrogen Generation & Storage Solutions



Complete HG Systems

The HGS can incorporate hydrogen generation, water supply, water and gas purification, and hydrogen storage in a single, compact, ready to use system.



Available Options

- ❖ DC power
- ❖ Indoor / outdoor enclosure
- ❖ Water purification
- ❖ Gas dryer
- ❖ Integrated or external hydrogen storage
- ❖ Remote monitoring /control
- ❖ Support and maintenance
- ❖ Permitting and approvals
- ❖ System integration, install, commission

Hydrogen Storage

Storage Modules

- ❖ rack-mountable
- ❖ stand-alone
- ❖ solid state (shown)
- ❖ high or low pressure compressed



Integrated Storage Systems

- ❖ Stationary power (indoor or outdoor)
- ❖ Transportation (replaceable canisters)



ElectricHydrogen are solid state and compressed hydrogen storage specialists. Onboard golf cart and people mover integration shown.

Metal Hydride Filling Station

- ❖ Rack-mountable
- ❖ Optional integrated storage buffer
- ❖ Optional integrated hydrogen generator



Specifications (Base MHF)

Options: integrated 4500 litres storage & case

Input

Hydrogen: up to 17 barg
up to 6 Nm³/hr
min. 99.95% purity

Output

Hydrogen: up to 17 barg
up to 2.4 Nm³/hr
99.95% purity

Capacity

4 x 900 litre (85g) Canisters

Application

Ideal for local distribution of canisters from a central facility and for replaceable canister filling systems in transportation applications.