

# EHG – Hydrogen Generator

offers a full-scale water electrolysis stack using a solid electrolyte membrane.

Hydrogen and oxygen can be easily generated simply by supplying pure water and electricity. By supplying electricity obtained from natural energy sources such as solar cells and wind power, hydrogen can be produced, which can then be used as needed to create a CO<sub>2</sub>-free power generation cycle.

Water electrolysis stacks can meet detailed output requirements by adjusting the number of cells, so they can be incorporated into your system. Please feel free to contact us.

## EHG – Hydrogen Generator

The EHG compact hydrogen generator is a lightweight, highly efficient, energy-saving, and environmentally friendly product that uses SPE technology to electrolyze pure water (without alkali addition) to produce high-purity hydrogen.

<b>Uses</b>	<ul style="list-style-type: none"> <li>➢ Fuel Cell fuel</li> <li>➢ For hydrogen water production and hydrogen inhalation</li> </ul>	<ul style="list-style-type: none"> <li>➢ GC (Gaseous phase) fuel and carrier gas</li> <li>➢ ELCD (Conductivity Monitor) reaction gas</li> <li>➢ ADE (Atomic Radiation Detector) reaction gas</li> </ul>
	<ul style="list-style-type: none"> <li>➢ SPE (PEM) electrolyzes pure water to generate hydrogen</li> <li>➢ Displays pressure and flow rate of generated hydrogen</li> <li>➢ Hydrogen is generated according to the consumed hydrogen flow rate</li> <li>➢ Stable supply of high purity hydrogen (99.99% or higher)</li> </ul>	<ul style="list-style-type: none"> <li>➢ Safety and convenience with various alarm devices</li> <li>➢ High electrolysis efficiency and excellent durability</li> <li>➢ High purity hydrogen can be supplied immediately with electricity and pure water</li> </ul>



Type	Small Standard (CE Certified)	Medium Standard (In conformity with CE)		Handy Type
Model Number	EHG-150/300/500	EHG-1000	EHG-2000/3000	EHM-100/300/500
Hydrogen Feed Rate (ml/min)	0~150/300/500	0~1,000	0~2,000/3,000	0~100/300/500
Peak Pressure (MPa.G)	0.02~0.4 (High Pressure Specification : 0.02~0.7)			0~0.4 Overpressure Protection : 0.46
Hydrogen Purity & Dew Point Temperature	>99.99% & -61°C (High Purity Specification : >99.999% & -76°C)			>99.999%
Power Consumption (W)	<90/150/200	<500	<1000/1500	<100/150/200
Electrical Source Voltage (V)	AC100 50~60Hz (AC200V also available)			AC220V/100V 50~60Hz
External Dimensions (L×W×H) mm	420×227×352	455×365×352	500×450×800	295×200×285
Unit Weight (kg)	<15	<20	<25	10/10.5/11
Water Quality Requirement	Water Resistivity > 1MΩ·cm			

**Warning :** Design and specifications can change without prior notice

Please note that the technical specifications for this device, as provided by the manufacturer in Japan, may differ depending on the country in which you plan to use the device. Please consult the relevant documentation or seek expert advice if you have any concerns or questions about using this device in a particular location.