

# GENSURE™

## GENSURE E-1000X FUEL CELL Power for Grid-Support Stationary Applications

Plug Power's GenSure E-1000x™ hydrogen fuel cell is optimized for grid-support and high duty cycle customer applications. It offers robust reliability, providing extended runtime for critical equipment. Unlike traditional generator technologies, which can be unpredictable and maintenance-heavy, GenSure systems deliver reliable, simple-to-maintain power over the widest range of operating environments. Multiple systems may be combined for higher power applications. Plug Power's GenSure fuel cell solutions provide scalable, clean, cost-effective performance while offering an unparalleled degree of flexibility in addressing both space and runtime constraints of customer locations, with indoor shelter and outdoor cabinet options.

**Proven. Rugged. Reliable. Clean.** Plug Power has installed more than 3,800 GenSure fuel cells at customer sites across the United States and 36 other countries. With more than 100 million installed hours of site power protection, GenSure products are field-proven through snow and ice storms, hurricanes and other severe weather events. Because the only emissions are warm air and a small amount of water, the E-1000x is exempt from the most stringent air quality standards and is a valuable component of corporate sustainability efforts.



Powering Your Possibilities.

## ROBUST, RELIABLE POWER

If your utility grid is unreliable or non-existent, your power solution had better be ready to perform. Plug Power's GenSure E-1000x fuel cells are optimized for high duty cycle, grid-support applications. Self-diagnostics and an auto-exercise program maintain fuel cell performance levels.

## SCALABLE FOR HIGHER CAPACITY APPLICATIONS

GenSure E-1000x fuel cells may be used solo for power requirements under 1,000W or in multiples for larger power requirements or N+1 redundancy. Flexible outdoor cabinet options allow customers to purchase the amount of power they need now and upgrade if requirements change in the future.

## ENVIRONMENTALLY-HARDENED

Power solutions need to perform wherever your equipment is located. Plug Power's GenSure fuel cells perform in hot and cold, humid and arid environments. Certification testing has confirmed their capabilities in wind-driven rain, brush fire and earthquake conditions. More importantly, these fuel cells are proven in real world conditions.



## COST-EFFECTIVE

Required fuel cell maintenance is limited to an annual air filter exchange. The GenSure E-1000x is covered by an industry-leading warranty and fuel cell health and fuel levels may be remotely monitored. Simple maintenance and fewer site visits mean up to 84% lower operational costs when compared to combustion generators. Clean, zero-emissions operation means not having to address fuel spill containment and air quality reporting requirements.

## PRODUCT SPECIFICATIONS

<b>PHYSICAL</b>	<b>DIMENSIONS (W X D X H)</b>	17.25" x 24" x 7" / 43.8cm x 61cm x 18cm
	<b>WEIGHT</b>	58 lbs / 26.4 kg
	<b>MOUNTING</b>	19" or 23" rack mount
<b>PERFORMANCE</b>	<b>RATED POWER</b>	1,000W (42A @ 24V / 21A @ 48V)
	<b>DC VOLTAGE</b>	24 / 48V nominal
<b>OPERATION</b>	<b>AMBIENT TEMP</b>	23°F to 122°F / -5°C to 50°C (Optional -40°F to 122°F / -40°C to 50°C in hardened outdoor cabinet)
	<b>RELATIVE HUMIDITY</b>	0-95% non-condensing
	<b>ALTITUDE</b>	-197 ft to 13,800 ft / -60m to 4,206m
	<b>LOCATION</b>	Indoors or hardened outdoor cabinet
<b>EMISSIONS</b>	<b>WATER</b>	Max 25mL / kWh (primarily vapor)
	<b>NOISE</b>	51.6dBA @ 23ft (7m) / 65dBA @ 4.9ft (1.5m)
<b>MONITORING/CONTROL</b>	<b>REMOTE</b>	System configuration & status / Historical & operational data
	<b>COMMUNICATIONS</b>	Standard: USB / Dry contact / Ethernet / SNMP / Web interface Optional: Wireless modem - CDMA / GSM / Ethernet switch
<b>FUEL: STANDARD INDUSTRIAL-GRADE HYDROGEN (99.95%)</b>		
	<b>SUPPLY PRESSURE TO UNIT</b>	8 to 12 psig / 55.1 to 82.8 KPag / 0.55 bar to 0.83 bar
	<b>CONSUMPTION</b>	13.2 slpm @ 1,000W
	<b>H<sub>2</sub> STORAGE CAPACITY</b>	n/a (multiple fueling solutions available separately)

Specifications subject to change without notice. Information based on standard products working under normal operating conditions.

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