

# GENSURE™

## GENSURE E-1100V FUEL CELL Power for Critical Stationary Applications

Plug Power's GenSure E-1100v™ hydrogen fuel cell - efficient, compact, environmentally-responsible energy. Designed for backup power applications within the telecommunications, utility, transportation and government sectors, the E-1100v fuel cell system provides up to 1,100W of DC power in a vertical rack-mounted chassis for space-sensitive applications. The E-1100v is fueled by hydrogen and can affordably provide highly reliable extended runtime for critical equipment.

**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-1100v is exempt from the most stringent air quality standards and is a valuable component of corporate sustainability efforts.



Powering Your Possibilities.

## FLEXIBLE INSTALLATION OPTIONS

Plug Power's GenSure E-1100v fuel cell was designed to meet the needs of our customers for whom footprint space is at a premium. The industry-first, vertical fuel cell may be rack-mounted indoors in an existing shelter or outdoors in an environmentally-hardened cabinet. Flexible outdoor configurations include fuel cabinet-mount and shelter wall-mount. Multiple fueling options are available.

## ENVIRONMENTALLY-HARDENED

We understand that you need your power solution 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 perform reliably in real world conditions.

## COST-EFFECTIVE

Required fuel cell maintenance is limited to an annual air filter exchange. 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>	18.75" x 7.375" x 27" / 47.6cm x 18.71cm x 68.6cm
	<b>WEIGHT</b>	63 lbs / 28.6 kg
	<b>MOUNTING</b>	23" rack mount
<b>PERFORMANCE</b>	<b>RATED POWER</b>	1,100W (46A @ 24V / 23A @ 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>	14 slpm @ 1,100W
	<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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