Green Hydrogen at Work™

GenSure Low-Power



Predictable Power for an Unpredictable World

GenSure Low-Power fuel cells provide highly reliable hydrogen fuel cell power solutions for a variety of applications including telecommunications, utility communications, first responder networks, and railroad communications.

Robust Hydrogen Fuel Cells for Low-Power Backup Power Applications

GenSure Low-Power fuel cells are fully-integrated fuel cell systems optimized for backup power generation as a component of a customer's DC plant. They can affordably provide hundreds of hours of runtime between refueling visits and many years of service for critical equipment. GenSure Low-Power fuel cells are a valued component of many reliable, cost-effective networks.



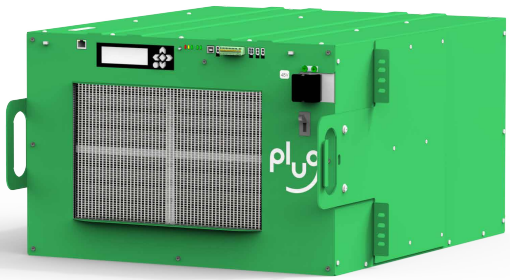
GenSure LP-200

- Scalable from 200W to 1,200W
- Supports requirements down to 50W



GenSure LP-1100

- Scalable above 1,100W
- Variable mount options



GenSure LP-2500

- Scalable
- Supports requirements up to 10kW in one cabinet

Proven Performance

The GenSure fuel cell product line was developed with the high-reliability needs of the communications market in mind. Years of field operation tracking by outside agencies has verified reliability at 99.6%, comparing favorably to diesel generators, which typically see reliabilty of up to 88%.

Speed of Deployment

- Reduce installation costs and improve the experience.
- Simplified installation.
- One crew. One visit. One pad. The GenSure Low-Power solution minimizes site prep, construction time and return visits.

Reduce on-site backup power integration.
Integrated cabinet options eliminate the trenching and conduit installation required for traditional connections from communications shelter to power solution, minimizing installation time.

Zero-Emissions Performance

GenSure fuel cells contribute to many well-planned corporate sustainability programs.
GenSure Low-Power fuel cells operate producing zero harmful emissions. The by-products of hydrogen fuel cells are heat and water. Unlike dirty combustion generators, fuel cells don't emit particulate matter or GHG emissions. That's good for the environment and eliminates the costs associated with environmental reporting and spill containment and cleanup.

In the past, the perception has been that going green costs too much. With GenSure, what's good for the environment is good for your bottom line. Lower costs, increased reliability, zero-emissions and no toxins.

Safe, Convenient Fuel

GenFuel hydrogen supply offers "peace of mind" refueling.
Plug's GenFuel hydrogen cabinets enable customers to house hydrogen fuel on-site, maintaining a constant fuel supply as needed for GenSure fuel cell systems. With GenFuel, the customer only needs to place a call. Plug makes sure fuel is delivered, whether for routine service, emergency service or disaster recovery models.

Lower Costs

Reduce capital cost & total cost of ownership.
GenSure Low-Power fuel cells provide an economically viable power solution designed to minimize site footprint and corresponding monthly lease payments while also lowering operating budgets through simplified maintenance.

Powerful Benefits

Lower Cost of Ownership
Simple maintenance and fewer site visits mean up to 84% lower operational costs when compared to combustion generators. GenSure's robust reliability eliminates the need for quarterly site maintenance visits, keeping personnel focused on their critical tasks.

Remote Monitoring
Using advanced control software with internet access, the customer can check the performance and health of the fuel cells from anywhere in the world, even from the convenience of a home office.

Clean Power
Clean, zero-emissions operation means not having to address fuel spill containment and air quality reporting requirements. Low heat and noise allow for placement in environmentally-sensitive locations including neighborhoods and national parks.

Highly Flexible
Built with a modular design, a variety of building blocks offer solutions for power requirements in scalable blocks, allowing for power requirements as low as 50W and upwards of 10kW. This allows communications professionals to purchase the backup power they need now and grow as requirements change.

Environmentally-Hardened
GenSure fuel cell products operate in some of the harshest weather conditions, ranging from -40ºF to 122ºF. Certification testing has confirmed GenSure fuel cell capabilities through wind-driven rain, hot and cold temperatures, brush fire, and Zone 4 earthquake conditions.

Proven Reliability
Third-party verified field reliability of 99.6%.

GenSure LP		200	1100	2500
Physical	**Dimensions (W x D x H)**	3.38" x 18.75" x 17.25" / 8.6cm x 47.63cm x 43.8cm	17.25"x24"x7"/43.8cmx-61cmx18cm	21.34" x 24" x 14" / 54.2cm x 61cm x35.6cm
	Weight	16.5 lbs / 7.5 kg	58 lbs / 26.4 kg	113 lbs / 51.2 kg
	Mounting	19" or 23" rack mount	19" or 23" rack mount	23" rack mount
Performance	**Rated Power**	200W (16.6A @ 12V / 8.3A @ 24V / 5.5A @ 36V / 4.1A @ 48V)	1,100W (46A @ 24V / 23A @ 48V)	2,500W (105A @ 24V / 52.5A @ 48V)
	DC Voltage	12 / 24 / 36 / 48V nominal - field-selectable	24 / 48V nominal	24 / 48V nominal
Operation	**Ambient Temp.**	23ºF to 122ºF / -5ºC to 50ºC (Optional -40ºF to 122ºF / -40ºC to 50º C in hardened outdoor cabinet)		
	Relative Humidity	0 - 95% non-condensing		
	Altitude	-197 ft to 13,000 ft / -60m to 4,206m		
	Location	Indoors or hardened outdoor cabinet		
Emissions	**Water**	Max 8mL / 200W (primarily vapor)	Max 25mL / kWh (primarily vapor)	Max 32mL / kWh (primarily vapor)
	Noise	51.6dBA@23ft (7m) / 65dBA@4.9ft (1.5m)	51.6dBA @ 23ft (7m) / 65dBA @ 4.9ft (1.5m)	58.6dBA @ 23ft (7m) / 72dBA @ 4.9ft (1.5m)
Monitoring/Control	**Remote**	System configuration & status / Historical & operational data		
	Communications	Standard: USB / Dry contact / Ethernet / SNMP / Web interface Optional: Wireless modem - CDMA / GSM / Ethernet switch		
Fuel: Standard Industrial-Grade Hydrogen (99.95%)				
	Supple Pressure Unit	8 to 12 psig / 55.1 to 82.8 KPag / 0.55 bar to 0.83 bar		
	Consumption	3 slpm @ rated power	14 slpm @ 1,100W	32 slpm @ 2,500W
	H2 Storage Capacity	n/a (multiple fueling solutions available separately)		

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Rev 09092024