

# GENSURE™

## INTEGRATED OUTSIDE PLANT SOLUTION Simplicity through integration provides savings

Plug Power's GenSure Integrated Outside Plant solution equips telecommunications customers with a reliable single cabinet solution for their network power and communications equipment, providing customers with a reduction in capital and operational expenses at each site. The integrated solution offers up to 87% footprint space savings over traditional solutions. GenSure fuel cells provide robust reliability and zero-emissions performance. GenFuel bulk refuelable hydrogen offers one-stop shopping for fueling for routine service, emergency service or disaster recovery models.

**Proven. Rugged. Reliable. Clean.** 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 reliability of up to 88%. As part of the Integrated Outside Plant cabinet, GenSure provides important benefits contributing to many corporate sustainability objectives.



Powering Your Possibilities.



**DC POWER**  
**CUSTOMER EQUIPMENT**  
**FUEL CELLS**  
**BATTERIES**



PRODUCT SPECIFICATIONS		STANDARD SITE	MACRO SITE
<b>CABINET: HARDENED OUTDOOR ENCLOSURE</b>			
<b>PERFORMANCE</b>		Environmentally-controlled electronics compartment	
<b>CUSTOMER-PROVIDED COMM EQUIPMENT</b>		9RU front / 5RU rear provided space for customer communications equipment which may include the following: 4G & 3G equipment, land mobile radio, microwave backhaul, fiber transport, cell site router, surge protection devices, ethernet aggregation	
<b>DC PLANT: RECTIFIERS</b>		<b>N+1 MODULAR RECTIFIERS</b>	
<b>PERFORMANCE</b>	<b>POWER OUTPUT</b>	5,000W (N+1) and up	
	<b>VOLTAGE</b>	48VDC and/or 24VDC	
<b>PRODUCT: BATTERY BRIDGE</b>		High-Temperature VRLA (NiCad, Lithium-Ion Options)	
<b>CAPACITY</b>		Up to 124 Amp-hours @ 48VDC lead acid equivalent	
<b>BACKUP POWER: FUEL CELL</b>		<b>GENSURE E-2500 (1)</b>	<b>GENSURE E-2500 (2)</b>
<b>PERFORMANCE</b>	<b>MAX POWER</b>	2,500W	5,000W
	<b>RATED CURRENT</b>	105A@24V/52.5A@48V	210A@24V/105A@48V
<b>OPERATION</b>	<b>AMBIENT TEMP</b>	-40°F to 122°F / -40°C to 50°C in hardened outdoor cabinet	
	<b>EMISSIONS</b>	Water vapor (no CO <sub>2</sub> )	
	<b>NOISE</b>	58.6dBA@23ft (7m) / 72dBA@4.9ft (1.5m)	
<b>MONITORING/CONTROL</b>	<b>REMOTE</b>	System configuration & status / Historical & operational data	
	<b>COMM</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>PRODUCT</b>		HSM9	HSM16
<b>PERFORMANCE</b>	<b>RUNTIME</b>	80+ hours @2kW	70+ hours @ 4kW
	<b>SOURCING</b>	Plug Power GenFuel available	

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

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