

## 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.

# GENSURE<sup>TM</sup>



Powering Your Possibilities.



PRODUCT SPECIFICATIONS		STANDARD SITE	MACRO SITE
CABINET: HARDENED OUTDOOR ENCLOSURE			
PERFORMANCE		Environmentally-controlled electronics compartment	
CUSTOMER-PROVIDED COMM EQUIPMENT		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	
DC PLANT: RECTIFIERS		N+1 MODULAR RECTIFIERS	
PERFORMANCE	POWER OUTPUT	5,000W (N+1) and up	
	VOLTAGE	48VDC and/or 24VDC	
PRODUCT: BATTERY BRIDGE		High-Temperature VRLA (NiCad, Lithium-Ion Options)	
CAPACITY		Up to 124 Amp-hours @ 48VDC lead acid equivalent	
BACKUP POWER: FUEL CELL		GENSURE E-2500 (1)	GENSURE E-2500 (2)
PERFORMANCE	MAX POWER	2,500W	5,000W
	RATED CURRENT	105A@24V/52.5A@48V	210A@24V/105A@48V
OPERATION	AMBIENT TEMP	-40°F to 122°F / -40°C to 50°C in hardened outdoor cabinet	
	EMISSIONS	Water vapor (no CO <sub>2</sub> )	
	NOISE	58.6dBA@23ft (7m) / 72dBA@4.9ft (1.5m)	
MONITORING/CONTROL	REMOTE	System configuration & status / Historical & operational data	
	COMM	Standard: USB/Dry contact/Ethernet/SNMP/Web interface Optional: Wireless modem - CDMA/GSM/Ethernet switch	
FUEL: STANDARD INDUSTRIAL-GRADE HYDROGEN (99.95%)			
PRODUCT		HSM9	HSM16
PERFORMANCE	RUNTIME	80+ hours @2kW	70+ hours @ 4kW
	SOURCING	Plug Power GenFuel available	

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

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