Green Hydrogen at Work™

Integrated Outside Plant Solutions

Simplicity through integration provides savings

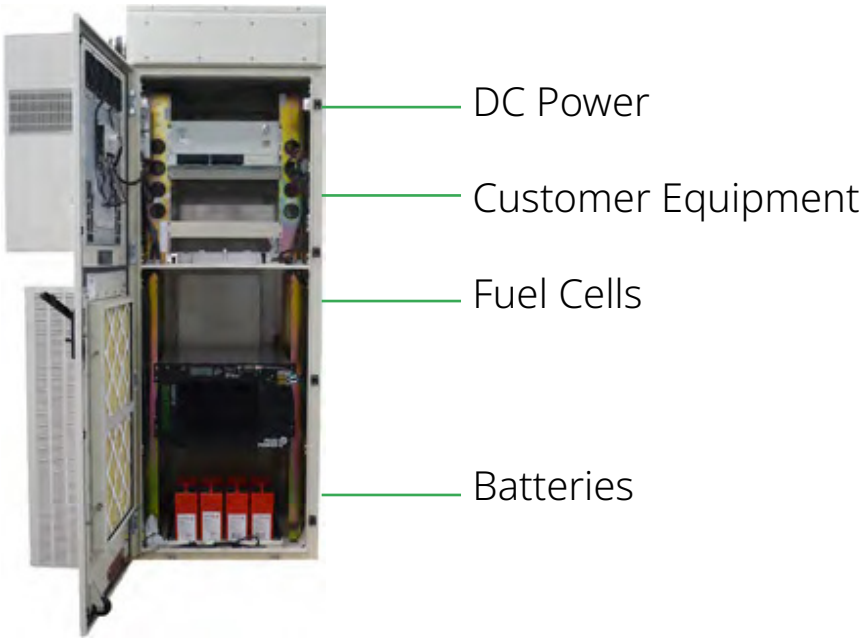


Plug Power's GenSure Integrated Outside Plant solution equips telecommunications customers with a reliable single cabinet solution for their network power and communications equipment, providing customers with a reduction in capital and operational expenses at each site. The integrated solution offers 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.







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 CO2)	
	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	

Corporate Headquarters
125 Vista Blvd,
Slingerland, NY 12159
518.782.7700

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