

# E-2500 Hydrogen Fuel Cell



## Features

- Parallel, modular chassis design, N+1 capable
- Scalable for higher capacity applications
- Self diagnostics for optimal performance
- Multiple bus / Multiple voltage site solutions
- Indoor shelter 23" rack mount and outdoor cabinetized configurations

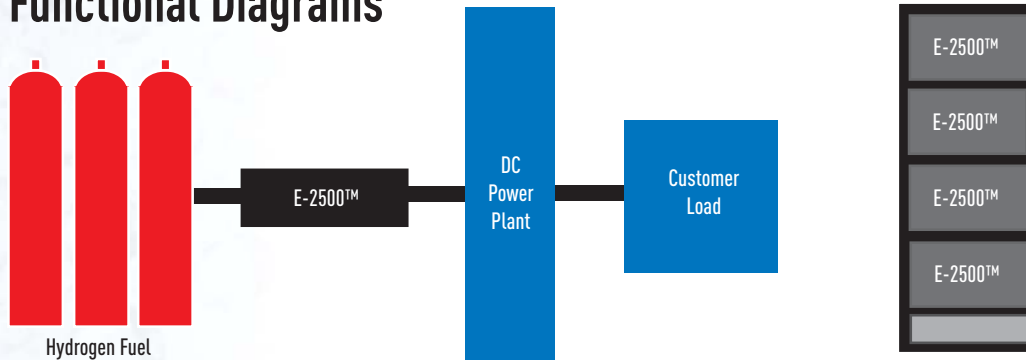
**Reli On**  
+ -<sup>®</sup>

The E-2500™ hydrogen fuel cell - efficient, compact, environmentally responsible energy. Designed for backup power applications within the telecommunications, transportation, security and government sectors, the E-2500™ fuel cell system provides DC power for equipment needing up to 2,500 Watts in an 8U rack-mount chassis. Multiple systems may be combined for higher power applications and N+1 redundancy. The E-2500™ system is fueled by hydrogen and can affordably provide highly reliable extended runtime for critical equipment. Because the only emissions are warm air and a small amount of water, the E-2500™ is exempt from the most stringent air quality standards and is a valuable component in corporate sustainability efforts.

Fuel Cells

Simply Powerful

## Functional Diagrams



- Rack and cabinet options enable higher capacity requirements
- Compact chassis allow integration with batteries and DC to DC conversion equipment

The E-2500™ fuel cell system is well suited for a variety of applications:

3G and 4G wireless  
 Wireless backhaul/T1/Fiber/Microwave  
 Transportation (Signals / Signs)  
 P25 / Tetra  
 SCADA  
 Disaster response / First Responder

Microwave communications  
 Radio/Repeater sites  
 Flight guidance ILS  
 Surveillance / Security systems  
 Broadband DLC

## Product Specifications

Physical	Dimensions (w x d x h)	21.34" x 24" x 14" / 54.2 cm x 61 cm x 35.6 cm
	Weight	113 lbs / 51.4 kg
	Mounting	23" rack mount (8U)
Performance	Maximum power	2,500W in single chassis / Scalable to 20kW in racks or cabinets
	Rated current	0 to 105A @ 24V / 0 to 52.5A @ 48V
	DC voltage	24 / 48 V nominal
Fuel	Composition	Standard industrial grade hydrogen (99.95%)
	Supply pressure to unit	8 to 12 psig / 55.1 to 82.8 KPag / 0.55 to 0.83 bar operating
	Consumption	30 slpm @ 2,500W
	Hydrogen Storage Capacity	n/a (modular storage solutions available from 2.5kWh to 300kWh)
Operation	Ambient temperature	23 <sup>0</sup> F to 122 <sup>0</sup> F / -5 <sup>0</sup> C to 50 <sup>0</sup> C Optional -40 <sup>0</sup> C to 50 <sup>0</sup> C in hardened outdoor cabinet
	Relative humidity	0-95% non-condensing
	Altitude	-197 ft to 13,800 ft / -60m to 4,206m
	Location	Indoors or hardened outdoor cabinet
Safety	Compliance	CSA, NEBS and CE
Emissions	Water	Max 32mL / kWh
	Noise	Max 65 dBA @ 4.9 ft / 1.5m when ducted outside
Monitoring / Control	Remote	System configuration & status / Historical & operational data
	Communications	Standard: USB / Ethernet / Dry contact / Front panel display / SNMP / Web interface Optional: Wireless modem - CDMA / GSM / Ethernet switch

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