

ElectraGen™ XTi Integrated Fuel Cell System

Designed to provide clean, reliable extended run backup power for critical telecommunication, utility and UPS applications, the IdaTech ElectraGen™ XTi fuel cell system eliminates the need for on-site hydrogen storage. Based on IdaTech's proven fuel reforming capabilities, the ElectraGen™ XTi system provides power for any critical application.

Battery-based and hydrogen-fueled solutions are appropriate for backup times lasting only a few hours. Due to size, weight, and siting issues associated with industrial bottled hydrogen, an alternative solution is required when several hours or days of backup power is needed for critical and remote power. The IdaTech ElectraGen™ XTi system provides reliable backup power using a significantly more compact liquid fuel, HydroPlus, a mixture of methanol and water. Using HydroPlus, the ElectraGen™ XTi system enables startup with no downtime as it generates hydrogen on-site to produce power as needed. Particularly appropriate for remote locations, the ElectraGen™ XTi system provides seamless power, ease of maintenance and a straightforward design.

The ElectraGen™ XTi system integrates two of IdaTech's proven technologies into one compact solution. Housed in a certified enclosure, the system combines IdaTech's patented fuel reformer, the fuel cell module and fuel tank for a turn-key solution for wireless or wireline telecommunications, utilities and government communications.



IdaTech's ElectraGen™ XTi fuel cell system, for dependable extended run backup power.

Performance Specifications:

Battery weight	460 lbs/209 kg
Shipping weight:	1500 lbs/680 kg
Fuel weight:	approx 425 lbs/193 kg
Fuel Specification:	Methanol/DI Water mix (62% methanol, 38% DI water by weight)
Fuel Consumption:	4.5 L/hr
Startup Time:	90 seconds
Sound level:	65 dbm @ 1 meter
Size:	(WxDxH): 58" x 35" x 84"/147.3cm x 88.9 cm x 213.4 cm
Temperature range:	-40° to +50°C
Relative humidity:	0-95% non-condensing
Location:	Outdoor rated
Elevation:	0-2000 meters (0-6562 ft) derating of 1.5% per 300 meters
Communications:	Remote monitoring package via Ethernet to allow diagnostic tests from any internet connection including: Low fuel level, Operating status, System usage, Starts/stops, Operational history
Certifications:	CE, CSA (pending)

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Other U.S. and foreign patents pending.

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