

# ElectraGen™ XTi System

## Extended Run Backup Power Fuel Cell System for Telecom



**ElectraGen™ XTi System:** Highly reliable, ultra-quiet, low emissions

**Fuel:** HydroPlus  
(methanol/water)

**Power:** 3 kW and 5 kW

**Voltage:** 24 or 48 Vdc

### Applications

Telecom backup power applications that require extended run times:

- Wireless Base Stations
- Secure Communications Networks (TETRA)
- Wireline Remote Terminals
- Broadband

IdaTech designs, develops and manufactures backup power fuel cell systems for telecommunications applications. IdaTech's products are clean, reliable, quiet and have been deployed worldwide for critical backup power applications.

The ElectraGen™ XTi System is an extended run backup power fuel cell system, available in 3 kW and 5 kW configurations. The system includes a fuel reformer that converts methanol and water liquid fuel into hydrogen gas to power the fuel cell system.

The ElectraGen™ XTi System is designed for high reliability, long autonomy and minimal maintenance. Operating on HydroPlus, methanol and water liquid fuel, the ElectraGen™ XTi System generates its own hydrogen, onsite and on demand, eliminating the need for delivery and storage of hydrogen, providing power for the long run.

### ElectraGen™ XTi System Specifications

<b>Power Rating</b>	5 kW or 3 kW
<b>Nominal Voltage</b>	48 Vdc or 24 Vdc
<b>Voltage Adjustable</b>	48 to 52 Vdc, 24 to 26 Vdc
<b>Size (W x D x H)</b>	1.5 x 0.9 x 2.1 m (58 x 35 x 84 in)
<b>Weight (Product)</b>	680 kg (1,500 lbs)
<b>Fuel Specification</b>	HydroPlus (methanol/water)
<b>Fuel Tank</b>	220 L (59 gal)
<b>Ambient Temperature</b>	-40°C to +50°C (-40°F to 122°F)*
<b>Location</b>	Outdoor Rated
<b>Elevation</b>	0 to 2000 m (0 to 6562 ft)**
<b>Communications</b>	4 Dry Contacts (relays), Ethernet, and Wireless Modem (GPRS)
<b>Certifications</b>	CE and ANSI/CSA FC-1
<b>Typical Run Time Standard 59 Gal Tank</b>	125 Hours @ 2 kW Output Power 50 Hours @ 5 kW Output Power

\* De-rate 2.5% per °C over 43°C and full solar load. \*\* De-rate 1.5% per 100 m above 2000 m. Specifications may change without notice.

### Advantages

**Extended Run Performance** – Backup power for days, not hours.

**Onsite and On-Demand Hydrogen Production** – Eliminates delivery, handling, and storage of bottled hydrogen.

**Advanced Technology** – Utilizes commercially proven Proton Exchange Membrane (PEM) technology.

**Reliable System** – Dependable performance over a wide range of temperatures: -40°C to +50°C.

**Scalable Systems** – 1 kW to 15 kW power output.

**Low Maintenance** – Lower life cycle costs compared to higher maintenance diesel and propane generators.

**Clean Technology** – Significantly lower environmental impact than both generators and batteries.

