

ElectraGen™ ME System

Extended Run Backup Power Fuel Cell System for Telecom



ElectraGen™ ME System:

Reliable, ultra-quiet, low emissions

Fuel: HydroPlus
(methanol-water)

Power: 2.5 kW or 5 kW

Voltage: 24 Vdc or 48 Vdc

Applications

ElectraGen™ fuel cell systems are designed for telecom backup power and other critical applications.

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

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™ ME System is an extended run backup power fuel cell system, available in 2.5 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™ ME System is designed for high reliability, long autonomy and minimal maintenance. Operating on HydroPlus, methanol and water liquid fuel, the ElectraGen™ ME 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™ ME System Specifications

Power Rating	2.5 kW or 5 kW
Nominal Voltage	24 Vdc or 48 Vdc
Voltage Adjustable	23 to 28 Vdc, 46 to 56 Vdc
Size (W x D x H)	1.35 x 1.15 x 1.76 m (53 x 45 x 69 in)
Footprint (W x D)	1.32 x 0.85 m (52 x 34 in)
Enclosure Material	Aluminum
Weight (Product)	295 kg (650 lbs)
Fuel Specification	HydroPlus (methanol-water)
Fuel Tank	225 L (59 gal)
Ambient Temperature	-5°C to +46°C (23°F to 115°F) Standard -40°C to +46°C (-40°F to 115°F) Cold Weather
Location	Outdoor Rated
Communications	SNMPv2c, Dry Contacts, & Optional Wireless Remote Monitoring
Certifications	CE, ANSI/CSA FC-1, and Telcordia GR-63-CORE Seismic Zone 4
Run Time	100 Hours @ 2 kW Output Power
Standard 59 Gal Tank	40 Hours @ 5 kW Output Power

Specifications may change without notice.

Advantages

Extended Run Options – 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.

Scalable Systems – Up 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.