

## XX25

### MOBILE POWER FOR MOBILE APPLICATIONS

The UltraCell® **XX25™** fuel cell is designed to deliver maximum power at minimal weight to mobile and stationary electronic devices. The XX25 fuel cell will deliver continuous power, completely unattended, for up to 25 days. When used in a battery backup recharging system much longer deployments (up to three months) are possible.

For remote or covert surveillance applications its small size makes it inconspicuous while its long runtime means that no servicing trips are needed thereby reducing the risk of detection.

The XX25 is an ideal power solution for a wide variety of military and commercial applications:

- ❖ Radio Gear
- ❖ Remote Systems
- ❖ Battery Charging
- ❖ Laptop Computers
- ❖ Mobile Surveillance
- ❖ Satellite Communications



### FEATURES AND BENEFITS

- ❖ Operates in many different orientations for maximum flexibility
- ❖ Safe for indoor and in-vehicle use: Emissions meet OSHA standards
- ❖ Reduces weight: 70% or more weight savings for a 72-hour mission
- ❖ Industry-leading performance: Operates at high-altitude and cold temperatures
- ❖ Operates anywhere: Quiet, rugged design for jungle, desert, and arctic environments
- ❖ Extended runtime: Hot swappable cartridges and optional long runtime external fuel tanks
- ❖ Simplifies logistics: Powers different devices at different voltages with application-specific tethers
- ❖ Works with hybrid battery systems to deliver 25 watts of continuous power with higher peak power delivery
- ❖ Smart runtime communications that configures the XX25 to sleep and to wake up when needed to supply power

# XX25 SYSTEM SPECIFICATIONS

## FUEL CELL SYSTEM

OPERATIONAL MODES	On/Off/Sleep
CONTINUOUS MAX POWER	25 Watts
STARTUP TIME	20 minutes
OUTPUT VOLTAGE	12-24 volts available with application-specific tethers
DASHBOARD SOFTWARE	Options for automated shutdown / sleep and battery recharging
FUEL COMPOSITION	Methanol and water mixture

## PHYSICAL SPECIFICATIONS

LCD DISPLAY	MIL Spec NVG compatible, displays remaining runtime and fuel level
CABLES	Application-specific tethers available
OUTPUT CONNECTOR	Military specified
DIMENSIONS	9.1" x 5.9" x 1.7" (23 cm x 15 cm x 4.3cm)
WEIGHT (WITHOUT CARTRIDGE)	2.7 lbs (1.24 kg)
COLOR	Sand

## ENVIRONMENTAL REQUIREMENTS

OPERATING TEMPERATURE	-4°F to +122°F (-20°C to +50°C)
STARTUP TEMPERATURE	Minimum 32°F (0°C); -20°C with optional Cold Weather Kit
STORAGE TEMPERATURE	-40°F to +140°F (-40°C to +60°C)
OPERATING ALTITUDE	0 to 6000Ft (0 to 1828m) at full power
HUMIDITY	0% to 95% (MIL-STD-810F)
TECHNOLOGY READINESS LEVEL	TRL 7
MIL-STD-810F TESTS PASSED	Humidity, Temperature Cycling, Solar Radiation, Dust, Vibration, Functional Shock, Acidic Atmosphere, Ice & Freezing Rain

## FUEL OPTIONS

Option	Weight	Dimensions	Capacity	Runtime (20W)
Cartridge	0.76lb (345g)	9.00" x 1.85" x 1.95" (22.50cm x 4.63cm x 4.88cm)	180Whr	9 Hours
XRT-75	2.64lb (1.2kg)	10.50" x 7.00" x 1.50" (26.25cm x 17.50 x 3.75cm)	900Whr	2 Days
XRT-200	7.96lb (3.6kg)	12.25" x 5.75" x 5.75" (30.63cm x 14.38cm x 14.38cm)	2,500Whr	5 Days
XRT-1000	40lb (18kg)	18.00" x 9.50" x 10.00" (45.00cm x 23.75cm x 25.00cm)	12,500Whr	25 Days



# UltraCell®

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