

## XX55

# EXTREME MOBILE POWER FOR DEMANDING APPLICATIONS

The **XX55™** reformed methanol fuel cell is the industry's newest ultra compact and highly portable fuel cell. The XX55 is designed to meet the rugged off-grid power needs of performance-demanding military and commercial users.

The fuel cell is powered by ultraclean, biodegradable methanol, providing quiet, nearly emissions-free operation. The system is the size of a typical hardbound book and four times lighter and six times smaller than the nearest production portable fuel cell system in its power class.

Scaled from UltraCell's award-winning and field-proven XX25™ fuel cell system, the XX55 delivers 50 watts of continuous power and up to 85 watts of peak power. It can run continuously off the grid for up to two weeks with a single hot swappable fuel tank. Its small size makes it inconspicuous, while its long life means that no servicing trips are needed for highly remote or covert surveillance applications.

The XX55 is ideal for a wide variety of higher-power electronic applications including radio and satellite communication gear, remote or mobile surveillance systems, and laptop computers and battery charging.



## FEATURES AND BENEFITS

- ❖ Autonomous operation with sleep mode functionality
- ❖ 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
- ❖ Unique hybrid battery system: Delivering 50 watts of continuous power and up to 85 watts peak power
- ❖ Unique clip-on and clip-off battery module design: Enables the use of a wide range of off-the-shelf batteries

# XX55 SYSTEM SPECIFICATIONS

## FUEL CELL SYSTEM

OPERATIONAL MODES	On/Off/Sleep
CONTINUOUS MAX POWER	50 W ( 80 watts peak with battery module)
OUTPUT VOLTAGE	12V-33V Specified at time of order
DASHBOARD SOFTWARE CD	For hybrid operation and battery recharging setup
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 (See Accessory Data Sheet)
OUTPUT CONNECTOR	Military specified
DIMENSIONS	10.7" x 8.2" x 3.2" (27.2 cm x 20.8cm x 8.1 cm) Without Battery Pack 12.3" x 8.6" x 3.2" (32 cm x 21.1cm x 8.4 cm) With Battery Pack
WEIGHT	3.5 lbs (1.6kg) (without battery or cartridge)
COLOR	Black

## ENVIRONMENTAL REQUIREMENTS

OPERATING TEMPERATURE	-4°F to +122°F (-20°C to +50°C)
STARTUP TEMPERATURE	Minimum -4°F (-20°C)
STORAGE TEMPERATURE	-40°F to +140°F (-40°C to +60°C)

## FUEL OPTIONS

Option	Weight	Dimensions	Capacity (Whr)	Runtime (50W)
250cc Cartridge	0.76lb (345g)	9.00" x 1.85" x 1.95" (22.50cm x 4.63cm x 4.88cm)	210	4 hours
550cc Cartridge	1.4lb (620g)	9.25" x 2.95" x 2.56" (23.50cm x 7.50cm x 6.50cm)	505	10 hours
XRT-75	2.64lb (1.2kg)	10.50" x 7.00" x 1.50" (26.25cm x 17.50 x 3.75cm)	1,200	24 hours
XRT-200	7.96lb (3.6kg)	12.25" x 5.75" x 5.75" (30.63cm x 14.38cm x 14.38cm)	3,170	3 days
XRT-1000	40lb (18kg)	18.00" x 9.50" x 10.00" (45.00cm x 23.75cm x 25.00cm)	16,190	14 days



# UltraCell®

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