



# ADVENT

Technologies, LLC

Honey Badger™ & UltraCell™ Fuel Cells

MADE IN THE USA

## EXTENDED RUNTIME FUEL OPTIONS

### CONTINUOUS POWER FOR LONGER OPERATION

When running out of power is not an option, the UltraCell extended runtime power solution is the answer. Whether you're powering a laptop, a satcom terminal, or a militar radio, the ability to have assured power for an extended period of time is critical.

UltraCell fuel cells provide uninterrupted power for extended periods, at an average 70% weight saving over a typical 72-hour mission. And, the fuel cartridge and tanks actually get lighter as they are used, reducing soldier strain as the mission progresses.

Together UltraCell fuel cells and new extended run-time fuel tanks now enable extended unattended runtime operation. This enables critical sensors or video surveillance systems to run for weeks or months at a time with a power supply with fuel source package that is easily transportable by a single person. This gives capability previously unavailable with traditional battery technology and at a minimum of the weight.



### FEATURES AND BENEFITS

- ❖ More easily recyclable than current battery technology
- ❖ Quiet operation: Provides advantages over traditional generators
- ❖ Lightens transportation loads: 70% or more weight savings possible
- ❖ Enables weeks or even months of continuous runtime operation in the field
- ❖ Round-the-clock availability: Compatible with MIL-SPEC night vision equipment
- ❖ Extended runtime: Hot swappable cartridges, optional external fuel tanks available
- ❖ Only UltraCell fuel cells can startup from a -20C cold soak without additional thermal kits
- ❖ Can be used indoors or outdoors: Emissions meet OSHA standards for indoor and in-vehicle use
- ❖ Cartridges and Wearable Power Fuel Sources are available to extend missions while lightening the load
- ❖ UltraCell Reformed Methanol Fuel Cell (RMFC) technology does not contain materials which are damaged at temperature extremes
- ❖ Only UltraCell's unique RMFC chemistry allows for a single fuel mixture which operates from -30 to +50C unlike other technologies which require desert and winter fuel mixtures
- ❖ Only UltraCell fuel cells can be stored in OFF mode between -30 to +80C without artificial heating unlike other technologies which require complex heating kits for storage below 0C



# EXTENDED RUNTIME FUEL OPTIONS

## ■ XRT-75 WEARABLE FUEL SOURCE

CONTINUOUS RUNTIME	2 days (45 hours) at 20 Watts
WEIGHT (FULL)	2.64lb (1.2kg)
WEIGHT (EMPTY)	7.0 oz (198g)
ENERGY CAPACITY*	900Whr or 75Ah @ 12v
DIMENSIONS	10.50" x 7.00" x 1.50" (26.25cm x 17.50 x 3.75cm)
COLOR	Black



## ■ XRT-200 MEDIUM FUEL TANK

CONTINUOUS RUNTIME	5 days (120 hours) at 20 Watts
WEIGHT (FULL)	7.96lb (3.6kg)
WEIGHT (EMPTY)	1.1 lb (460g)
ENERGY CAPACITY*	2,500Whr or 208Ah @ 12v
DIMENSIONS	12.25" x 5.75" x 5.75" (30.63cm x 14.38cm x 14.38cm)
COLOR	Black



## ■ XRT-400 TACTICAL FUEL TANK

CONTINUOUS RUNTIME	5.2 days at 40 Watts
WEIGHT (FULL)	13.0lb (5.9kg)
WEIGHT (EMPTY)	TBD
ENERGY CAPACITY*	5,000Whr or 417Ah @ 12v
DIMENSIONS	13.2" x 9.8" x 7.5" (33.5cm x 24.9cm x 19.0cm)
COLOR	Green



## ■ XRT-1000 LARGE FUEL TANK

CONTINUOUS RUNTIME	25 days (600 hours) at 20 Watts
WEIGHT (FULL)	40lb (18kg)
WEIGHT (EMPTY)	2.4 lb (1100g)
ENERGY CAPACITY*	12,500Whr or 1040Ah @ 12v
DIMENSIONS	18.00" x 9.50" x 10.00" (45.00cm x 23.75cm x 25.00cm)
COLOR	Black



\*Energy capacity shown for XX25; 10% higher for XX55

## ■ ENVIRONMENTAL REQUIREMENTS

OPERATING TEMPERATURE RANGE	-4°F to +122°F (-20°C to +50°C)
STARTUP TEMPERATURE	Minimum -4°F (-20°C)
STORAGE TEMPERATURE	-22°F to +176°F (-30°C to +80°C)
HUMIDITY	0% to 95% (MIL-STD-810F)
MIL-STD-810F TESTS PASSED	Humidity, Temperature Cycling, Solar Radiation, Dust, Vibration, Functional Shock, Acidic Atmosphere, Ice & Freezing Rain

# EXTENDED RUNTIME FUEL OPTIONS

## XRT FUEL TANK ADAPTER

UltraCell fuel tank interconnect slides into UltraCell XX25 and provides fuel line connection to fuel tank via quick connect nozzle.

Specifications:

Weight 1 lb (453g)  
Fuel line length 18" (45.72 cm)  
Part No AC011000



## Fuel Cell Pouches

MOLLE compatible fuel cell pouch for all fuel cells

Specifications:

Color Military sand  
Part No ( XX55 ) AC941007



## MEDIUM CARRYING CASE

MOLLE compatible carry case provides housing for XRT-200 fuel tank.

Specifications:

Color Military sand or Black  
Part No (Military sand) AC941008



## LARGE CARRYING CASE

MOLLE compatible carry case provides housing for XRT-1000 fuel tank.

Specifications:

Color Military sand or Black  
Part No (Military sand) AC941010



## EXTENDED RUNTIME FUEL OPTIONS

# 25 Days @ 20 Watts



**128 lbs**

**Qty 60 BA-5590  
Batteries**



**42 lbs**

**Qty 1 XX25 Fuel Cell with 1  
Five Gallon Fuel Tank**

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