



# ADVENT

Technologies, LLC

Honey Badger™ & UltraCell™ Fuel Cells



## HONEY BADGER 50

PN: SY011032

MADE IN THE USA

### MOBILE POWER GENERATOR FOR DEMANDING APPLICATIONS



The Honey Badger 50™ is the industry's newest, ultra-compact portable fuel cell system for quiet power supply. The power system is designed to meet off-grid, rugged, and long endurance power needs for performance-demanding military and commercial applications.

The fuel cell power system is fueled by biodegradable methanol, providing near silent power with clean emissions.

The power system delivers 50 watts of continuous power and can run continuously off-grid for several weeks with a single hot-swappable fuel tank.

The HB50 is designed for covert surveillance applications and is ideal for a wide variety of high-powered electronic equipment including radios, SATCOM, specialized surveillance systems, laptop computers and battery charging.

### FEATURES AND BENEFITS

- ❖ **Special Operations Forces (SOF)** can operate dual radios and laptops while conducting a wide array of austere extended missions.
- ❖ **Expeditionary Power** for dismounted Infantry mobile power while stationary or on the move.
- ❖ Integrates with existing power management devices
- ❖ Powers ruggedized Toughbook's and laptops without access to traditional methods of power
- ❖ Conformable Wearable Battery charger
- ❖ Designed for **Fire Support** communication requirements for **Joint Terminal Attack Controller (JTAC), Joint Fires Observer (JFO)**
- ❖ **UAV/UGV** power supply, charges batteries fast.
- ❖ **Weight Reduction** reduces load of batteries by over 70%.
- ❖ **Advent Reformed Methanol Fuel Cell (RFMC)** technology does not contain materials which are damaged at temperature extremes.
- ❖ **Indoor/Outdoor Use** / emissions meet OSHA Standards.
- ❖ **Military Specification** tested.
- ❖ Designed for long duration operations.
- ❖ DoD has existing **NSNs** for fuel source.

# HONEY BADGER 50 SYSTEM SPECIFICATIONS



## FUEL CELL SYSTEM

OPERATIONAL MODES	On/Off/Sleep
CONTINUOUS MAX POWER	50 Watts
OUTPUT VOLTAGE	16.8 Volts
FUEL COMPOSITION	Methanol and water mixture

## PHYSICAL SPECIFICATIONS

CABLES	GlenAir Connector, Mil Spec NVG compatible
OUTPUT CONNECTOR	Military specified
COLOR	Green
FUEL CONNECTION	Quick Disconnect application

## ENVIRONMENTAL REQUIREMENTS

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



## FUEL OPTIONS

Option	Part Number	Weight	Dimensions	Capacity (Whr)	Runtime (40W)
700cc Cartridge	CR00020	2.4lb (1.08kg)	11.00" x 2.50" x 2.50" (27.94cm x 6.35cm x 6.35cm)	700	16 hours
XRT-75	CR011052	3.0lb (1.4kg)	10.50" x 7.00" x 1.50" (26.25cm x 17.50 x 3.75cm)	1200	30 hours
XRT-200	AC611000	7.9lb (3.6kg)	12.25" x 5.75" x 5.75" (30.63cm x 14.38cm x 14.38cm)	2,500	2.6 days
XRT-400	AC611004	13lb (5.9kg)	13.2" x 9.8" x 7.5" (33.5cm x 24.9cm x 19.0cm)	5,000	5.2 days
XRT-1000	AC611001	37lb (16.8kg)	18.00" x 9.50" x 10.00" (45.00cm x 23.75cm x 25.00cm)	12,500	13 days

A filling station, CliC-it, is available upon request to re-fill cartridges in the field  
UltraCell can assist in sourcing CliC-it certified fuel for onsite refilling



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