



ADVENT

Technologies, LLC

Honey Badger™ & UltraCell™ Fuel Cells

MADE IN THE USA

SCALABLE BLADE 0-165W

PN: SY011012 - 150W
SY011015 - 100W
SY011014 - 70W

EXTREME MOBILE POWER FOR DEMANDING APPLICATIONS

The UltraCell Blade fuel cell platform is a variable fuel cell output power platform tailored specifically to the customer's power requirement. The output power options range from 0 to 165 Watts that can be specified by the customer at the time of purchase. The standard power options are: 70, 100, and 150W.

The fuel cell is powered by ultraclean, biodegradable methanol, providing quiet, nearly emissions-free operation. It can run continuously off the grid using the existing arsenal of UltraCell fuel cartridges. Its convenient form factor makes it easy for transportation, while its long life means that no servicing trips are needed for highly remote or covert surveillance applications.

The UltraCell Blade fuel cell platform is ideal for a wide variety of high-power electronic applications including radio and satellite communication gear, remote or mobile surveillance systems, laptop computers, and battery charging.



FEATURES AND BENEFITS

- ❖ 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.
- ❖ Only UltraCell fuel cells can startup from a -20C cold soak without additional thermal kits
- ❖ Autonomous operation with sleep mode functionality
- ❖ Safe for indoor and in-vehicle use: Emissions meet OSHA standards
- ❖ Unique hybrid battery system: Delivering 150 Watts of continuous power
- ❖ 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

SCALABLE BLADE SYSTEM SPECIFICATIONS

FUEL CELL SYSTEM

OPERATIONAL MODES On/Off/Sleep
 CONTINUOUS MAX POWER 0 to 165W specified at time of order
 OUTPUT VOLTAGE 10V-28V Specified at time of order
 FUEL COMPOSITION Methanol and water mixture

PHYSICAL SPECIFICATIONS

LCD DISPLAY MIL Spec NVG compatible display optional
 CABLES Application-specific tethers available (See Accessory Data Sheet)
 OUTPUT CONNECTOR Military specified or per customer request
 DIMENSIONS Standard Packaging: 13.2" x 9.8" x 7.5" (33.5cm x 24.9cm x 19.0cm)
 WEIGHT 23.1lb (10.5kg) for a 150W system (does not include external battery)
 BATTERY Internal Bren-Tronics BB-2590/U

ENVIRONMENTAL REQUIREMENTS

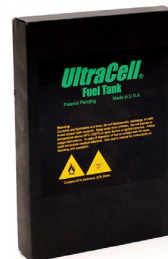
OPERATING TEMPERATURE -22°F to +122°F (-30°C to +50°C)
 STARTUP TEMPERATURE Minimum -4°F (-20°C)
 STORAGE TEMPERATURE -40°F to +140°F (-40°C to +60°C)

FUEL OPTIONS



Average Power Option (Watts)		70	100	150
Fuel Source / Hours of Runtime	XRT-75	14	10	8
	XRT-200	39	27	20
	XRT-400	92	65	50
	XRT-1000	193	138	105

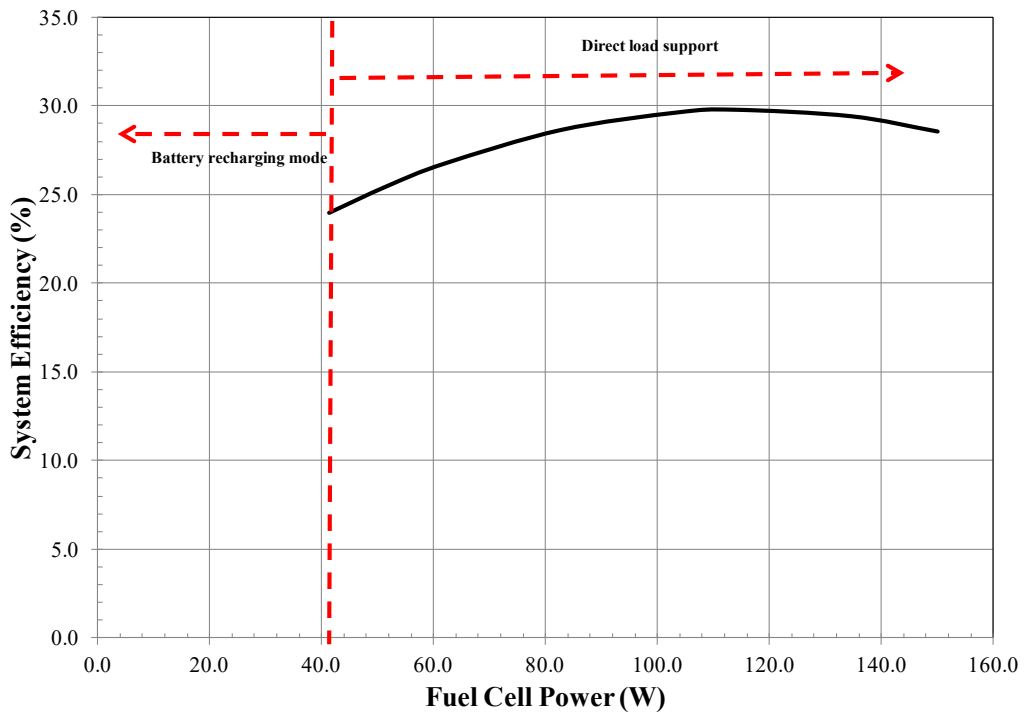
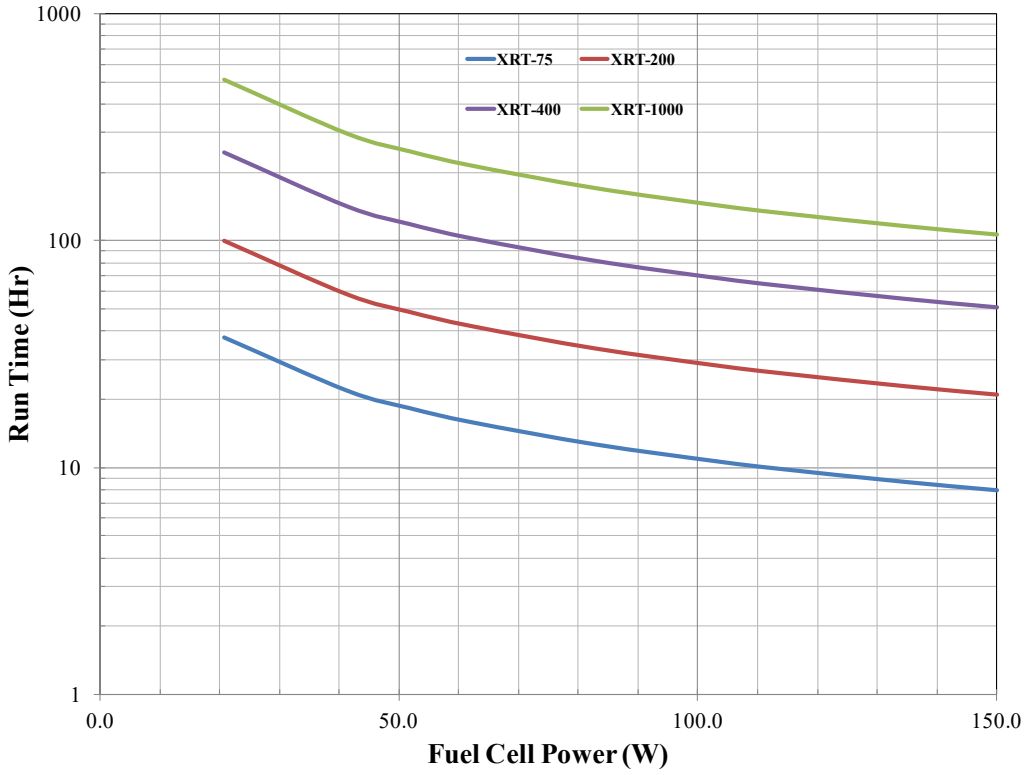
A filling station, CliC-it, is available upon request to re-fill cartridges in the field. UltraCell can assist in sourcing CliC-it certified fuel for onsite refilling.



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