



ADVENT

Technologies, LLC

Honey Badger™ & UltraCell™ Fuel Cells

MADE IN THE USA

Wearable Fuel Cell Backpacks

PN: ACK000X

EXTREME WEARABLE POWER FOR DEMANDING APPLICATIONS

The wearable backpack with 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.



FEATURES AND BENEFITS

- ❖ Available in three colors
- ❖ Modular backpack system optimized for fuel cell operation
- ❖ Air breathing components are securely constrained in an external pouch
- ❖ Battery and long run-time fuel bladder pouches allow the user to mount them outside the backpack
- ❖ 3rd zipper and fold down pouch allow user to access SATCOM radio without removing any hardware
- ❖ 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. Operates anywhere: Quiet, rugged design for jungle, desert, and arctic environments.
- ❖ Reduces weight: 70% or more weight savings for a 72-hour mission
- ❖ Autonomous operation with sleep mode functionality



FUEL CELL BACKPACKS



KITS AND PART NUMBERS

INDIVIDUAL PART NUMBERS

KIT: 117F/G, XX55, BB2590 & ASAP Compact Backpack	Part Number - Color Options
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ASAP backpack

- ASAP backpack - Coyote, Multicam or Foliage
- Battery Pouch - Coyote, Multicam or Foliage
- Fuel Cell StickIt - Coyote, Multicam or Foliage
- 117G Spadelock Radio Wrap - Coyote
- XrT75 Pouch Coyote (AC941010)

- ACK0002-1, KIT COYOTE
- ACK0002-2, KIT MULTICAM
- ACK0002-3, KIT FOLIAGE

- AC941024-1, POUCH,ASAP BACKPACK, COYOTE
- AC941024-2, POUCH,ASAP BACKPACK, MULTICAM
- AC941024-3, POUCH,ASAP BACKPACK, FOLIAGE

3-Day backpack

- AC941025-1, POUCH, 3-DAY BACKPACK, FOLIAGE
- AC941025-2, POUCH, 3-DAY BACKPACK, MULTICAM
- AC941025-3, POUCH, 3-DAY BACKPACK, FOLIAGE

KIT: 117F/G, XX55, BB2590 & 3-Day Backpack	Part Number - Color Options
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Battery Pouch

- 3-day backpack - Coyote, Multicam or Foliage
- Battery Pouch - Coyote, Multicam or Foliage
- Fuel Cell StickIt - Coyote, Multicam or Foliage
- 117G Spadelock Radio Wrap - Coyote
- XrT75 Pouch Coyote (AC941010)

- ACK0003-1, KIT COYOTE
- ACK0003-2, KIT MULTICAM
- ACK0003-3, KIT FOLIAGE

- AC941026-1, POUCH BB2590 BATT COYOTE
- AC941026-2, POUCH BB2590 BATT MULTICAM
- AC941026-3, POUCH BB2590 BATT FOLIAGE

Fuel Cell StickIt

- AC941027-1, POUCH, FUEL CELL STICKIT, COYOTE
- AC941027-2, POUCH, FUEL CELL STICKIT, MULTICAM
- AC941027-3, POUCH, FUEL CELL STICKIT, FOLIAGE

KIT: XX55 Retrofit Packaging Kit for bottom row MOLLE Equipped Backpacks	Part Number - Color Options
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117G Spadelock Radio Wrap

- Battery Pouch - Coyote, Multicam or Foliage
- Fuel Cell StickIt - Coyote, Multicam or Foliage
- 117G Spadelock Radio Wrap - Coyote

- ACK0004-1, KIT COYOTE
- ACK0004-2, KIT MULTICAM
- ACK0004-3, KIT FOLIAGE

- AC941028, POUCH,117G SPADELOCK RADIO WRAP

XrT75 Pouch Coyote

- AC941010, XRT 75 FUEL TANK MOLLE COYOTE

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