



ADVENT

Technologies, LLC

Honey Badger™ & UltraCell™ Fuel Cells

CiTADEL PoE

PN: ACA00XX

CiTADEL POWER SYSTEM FOR DEMANDING WIRELESS & SURVEILLANCE APPLICATIONS

OVERVIEW

UltraCell's CiTADEL utilizes battle tested hybrid battery technology to bring unparalleled reliability, efficiency and compactness to your surveillance and communications systems. Power over Ethernet (PoE) consists of several standardized systems that provide auxiliary electrical power and data on Ethernet cabling. A single Ethernet cable can provide both data and DC power to devices such as IP Cameras, VoIP Telephony, Wireless Access Points, and Network Switches and Routers.

UltraCell's CiTADEL Power System provides Power Over Ethernet (PoE), fully ruggedized, with multiple power inputs, and is offered in two versions:

- ❖ Low Power conforms to IEEE 802.3af - 15W at 48VDC
- ❖ High Power conforms to IEEE 802.3af - 15W at 48VDC plus 60W passive PoE up to 60W

Omnivorous power management enclosed in a rugged weatherized enclosure and powered by multiple sources:

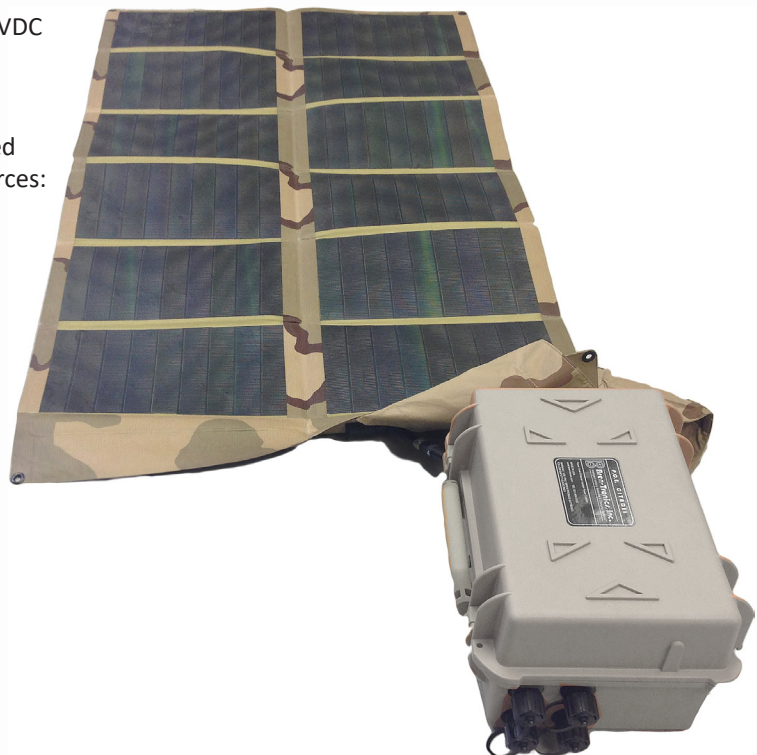
- ❖ AC Input - 90-265VAC
- ❖ DC Input - 12-35VDC Solar Power
- ❖ On-board battery options:
1-3 Mil STD BB2590/U or BB390/U

Multiple PoE Channels:

- ❖ Low Power: Two Active
(Passive can also be specified)
- ❖ High Power: One Passive and One Active

Other Features:

- ❖ Aux Power Output at 15VDC, 10A
- ❖ USB Charging Port at 3.1A



PoE CiTADEL Specifications

ELECTRICAL

Protected ON/Off Switch
Circuit breakers
Solar Charge Controller Built-In
Up to 3 Mil STD BB2590/U or BB390/U Batteries



PHYSICAL SPECIFICATIONS

CONTAINER	Ruggedized / Weatherproof
COLOR	Grey
DIMENSIONS	15.4" x 10.3" x 7.6" (39.2cm x 26.2cm x 19.4cm)
WEIGHT	8.5lb (3.9 kg) (without battery)
BATTERY	Qty 3 - Mil STD BB2590/U or BB390/U

ENVIRONMENTAL REQUIREMENTS

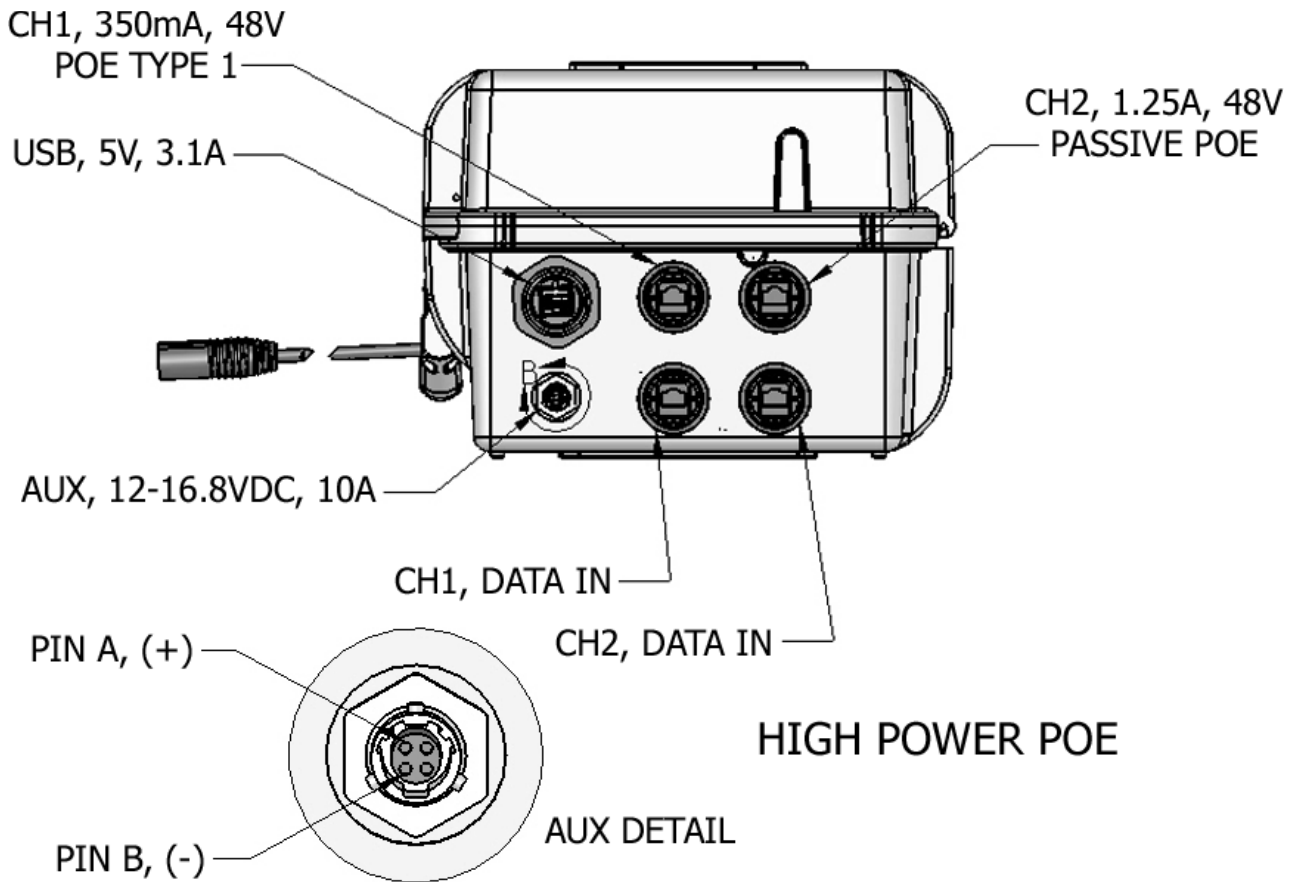
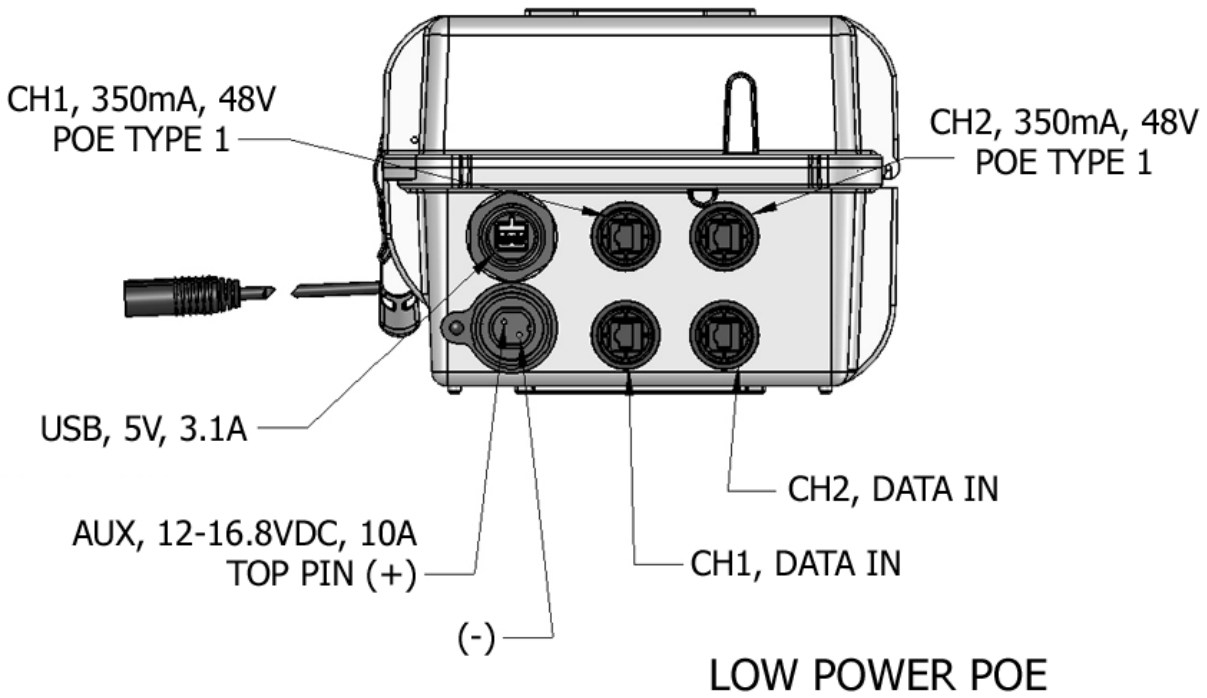
OPERATING TEMPERATURE	-4°F to +122°F (-20°C to +50°C)
STORAGE TEMPERATURE	-40°F to +140°F (-40°C to +60°C)



CHANNEL CONFIGURATIONS

	Low Power	High Power
# PoE Channels	Ch1&2 Active Type 1 - 802.3af 48VDC at 350mA (Passive can be specified.)	Ch1 Active Type 1 - 802.3af 48VDC at 350mA Ch2 Passive PoE 1.25A, 48V
Aux Output	12-16VDC, 10A	12-16VDC, 10A
USB Charging	5VDC, 3.1A	5VDC, 3.1A
# of Batteries	1-3 Mil STD BB2590/U or BB390/U	1-3 Mil STD BB2590/U or BB390/U
DC-In	12-34VDC	12-34VDC
AC-In	90-265VAC	90-265VAC
MPPT Charge Controller	Yes	Yes

PoE CiTADEL Specifications



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ELIMINATE CLUTTER

- ❖ Easy to connect!
- ❖ All hardware in one case!
- ❖ Eats all power!
Solar, AC, Vehicle



RAPID INSTALL

1. Install batteries
2. Close cover
3. Connect Solar or AC power source
4. Connect cameras and loads
5. Walk Away

LIGHTWEIGHT LI-ION BATTERIES: BATTLE TESTED RELIABILITY

- ❖ World's highest energy 2590/U battery – MADE IN USA!
- ❖ Battery models from -40C to + 60C storage and operation
- ❖ 600+ cycles with >80% capacity remaining
- ❖ No degradation if fully discharged
- ❖ Smart battery protects itself
- ❖ State of Charge Indicator



HIGH ENERGY LI-ION

- ❖ 300WHR
- ❖ 3.2LB
- ❖ 5 YEAR LIFE



LEAD ACID

- ❖ 300WHR
- ❖ 17.5LB
- ❖ 1 YEAR LIFE

ADVENT TECHNOLOGIES, LLC

5637 La Ribera Street Suite A Livermore CA 94550 USA

Tel: (925) 455-9400 Fax: (925) 455-7750

www.ultracell-llc.com sales@ultracell-llc.com