

# Data Sheet

## UPStealth® / Traffic Products



### Introduction

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City agencies and Departments of Transportation throughout U.S. and Canada have made a commitment to increasing safety at signalized intersections with UPStealth® Battery Backup Systems. UPStealth® is an intelligent digital battery backup system that utilizes an innovative Nickel-Zinc chemistry to energize signalize intersections and IT equipment when utility power is lost.

With over 355,000 North American signalized intersections, UPStealth® offers cities and municipalities an option over lead-acid when fulfilling a need for battery backup. Creating exceptional savings by cutting down on installation cost, maintenance costs and providing a reliable system that typically last two times that of a lead-acid equivalent. With built in diagnostic tools and remote monitoring capabilities, UPStealth® is a safe, smart, and efficient system with powerful capabilities.

### UPStealth Facets

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- Digitally controlled battery
- Unique form factors
- Stable power and performance
- Environmentally friendly
- Durable and safe
- Quick and easy installation
- Maintenance free
- Lower total cost of ownership

### Nickel-Zinc Advantages

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- Withstands hot and cold temperatures
- High-energy efficiency, generating little to no heat
- No liquid characteristics
- No flammable characteristics
- No hazmat concerns at cabinet knockdowns
- 70% lighter in weight in comparison to lead-acid
- Approx. twice the energy in half the space and size
- 4 hour full recharge time



*UPStealth® Living-Hinge Battery Panel*



*UPStealth® NEMA Battery Panel*



*UPStealth® 170 Inverter/Controller*



*UPStealth® NEMA Inverter/Controller*

## Inverter

Conversion Type.....	Intelligent 2-Stage System. 4 Msec transfer time
Power Rating.....	1000 Watts, 1500 Watts for 10 min. 3000 Watts for 30 cycles
Input Power.....	120 VAC 60Hz nominal, 80 to 135VAC, 57-63 Hz
Output Voltage.....	120 VAC $\pm$ 3%, 60 Hz $\pm$ 0.1% 240 VAC, 50 Hz optional
Temperature.....	-37° C / -35° F to 74° C / 165° F
Weight.....	(170) 14lbs (NEMA) 15lbs
Size.....	(170) 17"W x 3.5"H x 12"D (exc. Connectors) (NEMA) 17"W x 8"H x 8"D (exc. Ears)



*UPStealth® 170 Inverter/Controller*



*UPStealth® NEMA Inverter/Controller*

## Interface

Display.....	4 line X 20 Char. LCD with White LED Backlight
Relays.....	8 independent programmable relays with C, NO, NC. Contacts available for each relay 2 Amp contacts
Serial Communication.....	USB Port, Ethernet/Internet
GUI.....	RTi Connect™ desktop application for direct & remote communication utilizing TCP/IP
Keypad.....	5 pad for cursor control

## Battery

Chemistry.....	Nickel-Zinc, Sealed.
Environmental Data.....	RoHS Compliant, Certified as Recyclable. No Environmental, disposal, or safety concerns.
Panel Capacity.....	(170 Version) 300W or 500W (Nema) 500W.
Interface.....	Single, multiple conductor cable with a 22 pin connection. 42 Amp pins for battery connection.
Charging.....	Built in chargers and controllers for each battery pack, 4-hour charge time.
Max Battery Panels.....	16 panels with Optional Hub.
Design.....	Living-Hinge is designed to fit between rack and shell wall of cabinet. NEMA is shelf mounted or rack mounted.
Weight.....	(Living-Hinge) 300W, 20lbs. (Living-Hinge) 500W, 30lbs. (NEMA) 500W, 28lbs.
Size.....	(Living-Hinge) 300W, 19"W x 1"H x 17.25"D (Living-Hinge) 500W, 19"W x 1"H x 27.35"D (NEMA) 500W, 17"W x 3.5" H x 10"D



*UPStealth® Living-Hinge Battery Panel*



*UPStealth® NEMA Battery Panel*