Data Sheet

UPStealth® 2 UPS 1000W/1500W & PIM



Introduction

We now live in an Always-On ITS world and Departments of Transportation throughout the U.S. and Canada have made a commitment to smarter, safer, greener Intelligent Transportation System (ITS) operation with the Nickel-Zinc battery-based UPStealth Uninterruptible Power Supply (UPS). UPStealth is an intelligent UPS designed by transportation experts for ITS requirements and utilizes transformational Nickel-Zinc (NiZn) battery chemistry to energize intersections and ITS equipment when utility power is lost.

As the fastest growing UPS for ITS, UPStealth offers transportation departments the opportunity to upgrade to an easy-to-install, self-maintained solution with superior performance, environmental and safety advantages over traditional battery backup solutions.

UPStealth 2 Benefits

Cabinet Optimization

· Cabinet space and thermal optimization

Transformational NiZn Batteries

 Superior performance, safety and environmental advantages over lead-acid

Simple Installation & Self Maintaining

- Innovative form factors
- No periodic maintenance

Active Power Supervision

- Intelligent two stage operation
- Modern power analysis

Lower Total Cost of Ownership

UPStealth 2 New Features

- Longer run-times
- Extensive event logging
- Simplified user interface
 - Innovative navigation dial
 - Large, bright display
 - Email messaging
- Remote firmware updates
- Browser-based software



UPStealth® 2 UPS Available in 1000W & 1500W



UPStealth® 2 Power Interface Module (PIM)

UPS 1000W & 1500W Specifications

Input Power	
•	120Vac nominal
Input Voltage Range	85-140Vac User Programmable
Input Current	15A max 60Hz nominal
Input Frequency	±10% (54-66Hz)
UPS Output	130000000000000000000000000000000000000
Output Voltage	120Vac ±3%
Output Current	1000W: 8.3A nominal 1500W: 12.5A nominal
Output Power	1000W: 1000 Watts 1500W: 1500 Watts
Output Frequency	60Hz ±0.5Hz
Output Waveform	Pure Sinewave
UPS Efficiency	97%
, , , , , , , , , , , , , , , , , , ,	37/6
Environmental	(270) - 700) (200) - 4500)
Operating Temperature Range	(-37°C to 74°C) (-34°F to 165°F)
Inverter Performance	
THD	1000W: < 2% 1500W: < 3%
Overload	1000W: 2,000W Surge 1500W: 3,000W Surge
System Switchover	
	Intelligent Two-Stage Operation
Operating Modes	Stage One: Line Conditioner, Waveform Monitoring and Switchover to Battery Backup
	Stage Two: Waveform Monitoring, Return to AC Power
Switchover Thresholds	AC Voltage: Programmable from 85-140Vac in 1V steps
	AC Waveform Analysis
	AC Frequency: 60Hz ±6Hz
Transfer Time from AC Power to Battery	Typical < 33ms
Backup	туріса Сээніз
Mechanical	
Size	1000W: 3.7"H X 17"W X 11.6"D 1500W: 4.6"H X 17"W X 11.6"D
Weight	1000W: 12 lbs. 1500W: 14 lbs.
	AC cable from PIM IEC 320 C20 (male)
UPS Connection System	AC cable to PIM IEC 320 C19 (female)
or 5 connection system	
C	Battery connection system - 7 pin DSUB for up to 6 battery systems
Communications	
Display	64 x 128 Pixels LCD Display with White LED Backlight
Ports	Ethernet RJ45 - 10/100Mbps, TCP/IP
Dry Relay Contacts	8 Independent Programmable Form C Relays (default state: NO) Class 2 only
Indicators & Alarms	
	AC Power Failure
	Daily Time Trigger
Alarm Functions	Delay After Power Failure
AIATHI FUNCTIONS	
Alarm Functions	
AIdIII FUNCTIONS	Battery Capacity
Additi Functions	Battery Capacity UPS Fault
Additi runctions	Battery Capacity UPS Fault System Startup
Aidiii runctions	Battery Capacity UPS Fault System Startup Cold Start
	Battery Capacity UPS Fault System Startup Cold Start Inverter On/Off
Audible Indicators	Battery Capacity UPS Fault System Startup Cold Start Inverter On/Off Inverter Output over Current
	Battery Capacity UPS Fault System Startup Cold Start Inverter On/Off
	Battery Capacity UPS Fault System Startup Cold Start Inverter On/Off Inverter Output over Current
	Battery Capacity UPS Fault System Startup Cold Start Inverter On/Off Inverter Output over Current AC Miswire
	Battery Capacity UPS Fault System Startup Cold Start Inverter On/Off Inverter Output over Current AC Miswire Rotating Dial, pushing Enter or Back button on front panel
Audible Indicators	Battery Capacity UPS Fault System Startup Cold Start Inverter On/Off Inverter Output over Current AC Miswire Rotating Dial, pushing Enter or Back button on front panel
Audible Indicators Certifications	Battery Capacity UPS Fault System Startup Cold Start Inverter On/Off Inverter Output over Current AC Miswire Rotating Dial, pushing Enter or Back button on front panel UPS Fault
Audible Indicators Certifications UL/CSA	Battery Capacity UPS Fault System Startup Cold Start Inverter On/Off Inverter Output over Current AC Miswire Rotating Dial, pushing Enter or Back button on front panel UPS Fault Battery cells: Recognized UL-2054, CSA 22.2 No. 60950-1
Audible Indicators Certifications UL/CSA Features	Battery Capacity UPS Fault System Startup Cold Start Inverter On/Off Inverter Output over Current AC Miswire Rotating Dial, pushing Enter or Back button on front panel UPS Fault Battery cells: Recognized UL-2054, CSA 22.2 No. 60950-1 Simple push-button activation of cold start on battery power
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Audible Indicators Certifications UL/CSA Features Cold Start	Battery Capacity UPS Fault System Startup Cold Start Inverter On/Off Inverter Output over Current AC Miswire Rotating Dial, pushing Enter or Back button on front panel UPS Fault Battery cells: Recognized UL-2054, CSA 22.2 No. 60950-1 Simple push-button activation of cold start on battery power Digital Battery Bus Compartmentalized Battery Strings
Audible Indicators Certifications UL/CSA Features	Battery Capacity UPS Fault System Startup Cold Start Inverter On/Off Inverter Output over Current AC Miswire Rotating Dial, pushing Enter or Back button on front panel UPS Fault Battery cells: Recognized UL-2054, CSA 22.2 No. 60950-1 Simple push-button activation of cold start on battery power Digital Battery Bus Compartmentalized Battery Strings Redundant Isolated Battery Strings Managed in Parallel Upon Discharge
Audible Indicators Certifications UL/CSA Features Cold Start	Battery Capacity UPS Fault System Startup Cold Start Inverter On/Off Inverter Output over Current AC Miswire Rotating Dial, pushing Enter or Back button on front panel UPS Fault Battery cells: Recognized UL-2054, CSA 22.2 No. 60950-1 Simple push-button activation of cold start on battery power Digital Battery Bus Compartmentalized Battery Strings Redundant Isolated Battery Strings Managed in Parallel Upon Discharge Integrated Temperature Compensated Charging
Audible Indicators Certifications UL/CSA Features Cold Start Battery Management System	Battery Capacity UPS Fault System Startup Cold Start Inverter On/Off Inverter Output over Current AC Miswire Rotating Dial, pushing Enter or Back button on front panel UPS Fault Battery cells: Recognized UL-2054, CSA 22.2 No. 60950-1 Simple push-button activation of cold start on battery power Digital Battery Bus Compartmentalized Battery Strings Redundant Isolated Battery Strings Managed in Parallel Upon Discharge Integrated Temperature Compensated Charging Redundant Performance
Audible Indicators Certifications UL/CSA Features Cold Start Battery Management System Multiple Mounting Configurations	Battery Capacity UPS Fault System Startup Cold Start Inverter On/Off Inverter Output over Current AC Miswire Rotating Dial, pushing Enter or Back button on front panel UPS Fault Battery cells: Recognized UL-2054, CSA 22.2 No. 60950-1 Simple push-button activation of cold start on battery power Digital Battery Bus Compartmentalized Battery Strings Redundant Isolated Battery Strings Managed in Parallel Upon Discharge Integrated Temperature Compensated Charging Redundant Performance Rack, Shelf or Hanging
Audible Indicators Certifications UL/CSA Features Cold Start Battery Management System	Battery Capacity UPS Fault System Startup Cold Start Inverter On/Off Inverter Output over Current AC Miswire Rotating Dial, pushing Enter or Back button on front panel UPS Fault Battery cells: Recognized UL-2054, CSA 22.2 No. 60950-1 Simple push-button activation of cold start on battery power Digital Battery Bus Compartmentalized Battery Strings Redundant Isolated Battery Strings Managed in Parallel Upon Discharge Integrated Temperature Compensated Charging Redundant Performance
Audible Indicators Certifications UL/CSA Features Cold Start Battery Management System Multiple Mounting Configurations Notifications	Battery Capacity UPS Fault System Startup Cold Start Inverter On/Off Inverter Output over Current AC Miswire Rotating Dial, pushing Enter or Back button on front panel UPS Fault Battery cells: Recognized UL-2054, CSA 22.2 No. 60950-1 Simple push-button activation of cold start on battery power Digital Battery Bus Compartmentalized Battery Strings Redundant Isolated Battery Strings Managed in Parallel Upon Discharge Integrated Temperature Compensated Charging Redundant Performance Rack, Shelf or Hanging
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Audible Indicators Certifications UL/CSA Features Cold Start Battery Management System Multiple Mounting Configurations Notifications	Battery Capacity UPS Fault System Startup Cold Start Inverter On/Off Inverter Output over Current AC Miswire Rotating Dial, pushing Enter or Back button on front panel UPS Fault Battery cells: Recognized UL-2054, CSA 22.2 No. 60950-1 Simple push-button activation of cold start on battery power Digital Battery Bus Compartmentalized Battery Strings Redundant Isolated Battery Strings Managed in Parallel Upon Discharge Integrated Temperature Compensated Charging Redundant Performance Rack, Shelf or Hanging All alarm functions available on (SNMP, SMTP, Relay) Front Panel panel navigation dial and button
Audible Indicators Certifications UL/CSA Features Cold Start Battery Management System Multiple Mounting Configurations Notifications Local and Remote Control	Battery Capacity UPS Fault System Startup Cold Start Inverter On/Off Inverter Output over Current AC Miswire Rotating Dial, pushing Enter or Back button on front panel UPS Fault Battery cells: Recognized UL-2054, CSA 22.2 No. 60950-1 Simple push-button activation of cold start on battery power Digital Battery Bus Compartmentalized Battery Strings Redundant Isolated Battery Strings Managed in Parallel Upon Discharge Integrated Temperature Compensated Charging Redundant Performance Rack, Shelf or Hanging All alarm functions available on (SNMP, SMTP, Relay) Front Panel panel navigation dial and button Embedded webserver software for remote connectivity and control

*All Specifications Valid at 25°C *All Specifications Subject to Change

PIM Specifications

Input Power	
Input Voltage Range	120Vac nominal
Input Current	15A max
Input Frequency	60Hz nominal
Output Power	
Output Voltage	120Vac nominal
Output Current	15A max
Frequency	60Hz nominal
Environmental	
Operating Temperature Range	(-37°C to 74°C) (-34°F to 165°F)
Mechanical	
Size	6.0"H X 10.0"W X 4.0"D
Weight	3.7lbs
Mounting	Single Rail Rack Mount, Shelf Mount, Panel Mount
Electrical & Connections	
AC Power Interface	Utility and Cabinet Load:
	- Terminal Block for 10AWG (#8 Screw)
AC Power Connections	To UPS IEC320 C19 (female)
	From UPS IEC320 C20 (male)
	To Battery Panel/Module IEC 320 C19 (female)
Breakers	Combined UPS Test Switch and 15A input breaker
	UPS output 20A breaker
Test Outlet	NEMA receptacle 5-15
Switch	
Automatic Bypass Switch	Double Pole Double Throw (DPDT)
	Contact Rating: 120/240 Vac @ 30A continuous
Indicator	

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