



# SecureUPS On-Line 120V AC Output, 1300VA

## Trusted Power Protection Solution for Intelligent Transportation Systems (ITS)

### Challenges

Intelligent transportation systems (ITS) are using innovative traffic management technology such as adaptive signal controls, emergency vehicle preemption and incident monitoring to help citizens use roadways in a safe and efficient manner. As more intelligent devices are installed in roadside cabinets, the prevention of equipment failures due to power events becomes more critical.

### Solution

Designed to operate in harsh environments, APC SecureUPS provides high-density, double-conversion online power protection and advanced management for ITS. When used with external batteries, the model ensure back-up time during power outages. The SecureUPS is a perfect solution to protect your systems from power outages and prevent unnecessary maintenance calls due to power fluctuations.



### Benefits

- 1 Improve Intersection Safety While Reducing Operating Costs**  
Clean power with double-conversion on-line technology:
  - Lowers maintenance costs by reducing service calls to reset signal operation
  - Reduces risk due to dark/flashing intersections by improving signal uptime
  - Extends battery life by lowering cycle count
  - Extends battery life by handling many power quality issues electronically
- 2 Remotely manage your UPS Fleet with Certainty**
  - Configure, receive notifications, review event logs, run diagnostics test & check battery runtime status
  - Manage the entire system with detailed battery information and early fault warnings
  - Ecostruxure IT™ integration: collect & distribute critical alerts with a unified view of physical infrastructure environments from anywhere on the network
- 3 Maintain ITS Network Security**
  - Imbedded Network Management Card 2 (NMC2) allows for secure remote monitoring & control of a UPS via web browser, CLI, SNMP (v1/v2c/v3), Modbus TCP and BACnet/IP
  - Adopts the latest network communication protocols for improved security
- 4 Eliminate Maintenance Headaches**
  - Field replaceable fan/filter for easy replacement
  - Quick troubleshoot with user-friendly LCD screen
  - 24/7 support from Schneider Electric's established service & support team
- 5 Outperform Roadside Environments**
  - Conformally coated for humidity & pollution tolerance
  - Designed for -37 °C to +74 °C (-40°F to 165°F) operating temperatures with integrated temperature compensated charging system

### What do customers say about SecureUPS?

*"The 1300VA power management unit takes everything that makes APC great in the server room and puts it on street in intelligent transportation systems. The power protection and battery backup features are a great fit for an intersection, while the remote monitoring capabilities and versatility allow for easy deployment in any traffic cabinet."*

*-Eric from City of Sevierville, Tennessee*

[www.apc.com/secure-UPS](http://www.apc.com/secure-UPS)

Life Is On

**APC**  
by Schneider Electric

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## Product Overview



- 1 Easily Replaceable Filter
- 2 Easily Replaceable Fan Assembly
- 3 Serial port to communicate with the SecureUPS
- 4 External Battery Circuit Breaker to connects/disconnect battery power
- 5 USB Port
- 6 Universal I/O Port to connect optional environmental monitoring accessories
- 7 Reset Button to restart the Network Management Interface
- 8 Ethernet Port for network communication
- 9 Status LEDs
- 10 LCD for real-time status updates and UPS control
- 11 Battery Communication Connector
- 12 External bypass box interface (RS485 and +24 VDC power)
- 13 Input AC Circuit Breaker to connects/disconnects AC power
- 14 AC Input Connector
- 15 AC Output Connector
- 16 Relay Input Connector
- 17 Battery Test Points
- 18 Relay Output Connector
- 19 Battery Temperature Sensor Connector (Sensor cable and mating connector are supplied with the battery harness kit)
- 20 High Current DC Output Connector (Cables are not provided along with the UPS.)

## LCD Display Features



### LCD display screen

Accurately provides real-time status updates in your choice of basic or advanced menus

### UPS status (scrolling)

- Output voltage
- Input voltage
- Output frequency
- Runtime
- Load
- Battery health

### Control

- UPS and outlet group settings
- Bypass control

### Configuration

- Output voltage, frequency
- Language, brightness, contrast
- Alarm volume
- IP address

### Test and diagnostics

- Initiate battery and runtime calibration tests

### About

- UPS serial number, battery part number
- Battery install and suggested replacement dates



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## Main applications

- Traffic Signals
- Ramp Metering
- Roadside Monitoring Systems
- Dynamic Message Signs
- Public Transportation Field Controls
- Tolling Systems
- Tunnel Control Systems
- Rail Crossings Signals



## Accessories



### Battery Harness Kit (required)

Connect the 48V battery string to the product to enable the use of multiple battery strings.

#### Part numbers:

XHXXS7A4F - SBS75 Cabinet Accessory 4 ft  
XHXXS7A8F - SBS75 Cabinet Accessory 8 ft

### Extended Temperature Batteries

Long backup times available with up to eight 100 Ah lead-acid batteries. Extend temperature with batteries best suited for harsh environments.

#### Part numbers:

XB102XX1XS - Battery 100Ah 12Vdc  
XB050XX1XS - Battery 50Ah 12Vdc

### Battery Heater Mat

Allows battery use in extreme temperatures – 2 sizes available: 256 and 365 sq. in.

#### Part numbers:

XM050DXXXXA - Battery Heater Mat 256 Sq In. 120Vac  
XM102DXXXXA - Battery Heater Mat 365 Sq In. 120Vac

### Environmental Monitoring Accessories

Optional accessories to increase environmental control through sensors.

#### Part numbers:

AP9335TH - Temperature/humidity sensor  
AP9810 - Relay input/output connector - supports two input contacts and one output relay

## Trusted power protection for Intelligent Transportation Systems



# Technical Specifications

Product SKU		XU1K3LLXRCC	
<b>Output</b>			
Output Topology	Double Conversion On-Line		
Nominal Output Voltage	120 Vac		
Output Power Rating	1300 W, 1300 VA, with no derating over full temperature range		
Output Voltage Regulation (static)	± 1%		
Output Frequency (nominal)	50/60 Hz ± 3 Hz		
Output Waveform	True Sinewave		
<b>Input</b>			
Nominal Input Voltage	120 Vac		
Input Voltage Range	83 to 157 Vac		
Input Frequency	40 to 70 Hz		
Input Connection	Single phase, 3 wire (Line, Neutral and Ground)		
<b>Communication and Management</b>			
Interface Ports	Ethernet via Embedded Network Management Card (NMC) & USB		
Control Panel and Audible Alarms	High-resolution graphical LCD display; alarm on battery, distinctive low battery alarm and configurable delays		
<b>Environment</b>			
Temperature - Operation	-40 to 74° C (-40 to 165° F)		
Temperature - Storage (without batteries)	-40 to 85° C (-40 to 185° F)		
Maximum Elevation - Operating	0 - 3,000 m (0 to 10,000 ft)		
Maximum Elevation - Storage	0- 15,000 m (0 to 50,000 ft)		
Humidity	0% to 95% relative humidity, non-condensing		
<b>Physical</b>			
Unit Weight without Packaging	12 kg (26.5 lb)		
Unit Weight with Packaging	13.5 kg (29.8 lb)		
Unit Dimensions without Packaging Width x Depth x Height	434 mm x 260 mm x 88 mm (17.1 in x 10.3 in x 3.5 in)		
Unit Dimensions with Packaging Width x Depth x Height	535 mm x 370 mm x 186 mm (21.1 in x 14.6 in x 7.3 in)		
<b>Conformance</b>			
Warranty	3-year factory warranty with optional extended warranty		
<b>External Batteries</b>			
SKU	XB050XX1XS	XB102XX1XS	
Rating	50 Ah, 12 Vdc	100 Ah, 12 Vdc	
Battery Type	Maintenance-free sealed lead-acid battery with suspended electrolyte; leak proof		
Typical Backup Time at Varying Load Conditions	Please refer to <a href="http://www.apc.com">www.apc.com</a> for runtime charts		
<b>Battery Harness Kit</b>			
SKU	XHXXS7A4F	XHXXS7A8F	
Descriptions	SBS75 cabinet accessory 4 ft	SBS75 cabinet accessory 8 ft	