

Smart-UPS Industrial 1300VA & 2000VA

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 efficient manner. As more intelligent devices are installed in roadside cabinets, Preventing equipment failures from power events becomes increasingly critical.

Solution

Designed to operate in harsh environments, APC[™] Smart-UPS[™] Industrial not only provide high-density, doubleconversion online power protection and advanced management for ITS, but also ensure backup time during power outages when used with external batteries. Smart-UPS Industrial are perfect solutions to protect your systems from power outages and prevent unnecessary maintenance calls due to power fluctuations.

Benefits

Improve Intersection Safety While Reducing Operating Costs

Clean power with double-conversion on-line

- 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

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

What do customers say about Smart-UPS Industrial?

Maintain ITS Network Security

- Imbedded Network Management Card 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

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

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

"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

Smart-UPS Industrial On-Line 120VAC Output **Overview**



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

nnector connector Connector **Points** t Connector perature Sensor Connector le and mating connector are the battery harness kit) nector

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)

- Input voltage

- Battery health

Control

- UPS and outlet group
- Bypass control

Configuration

- Output voltage, frequency
- · Language, brightness, contrast
- IP address

Test and diagnostics

Initiate battery and runtime

About

• UPS serial number, battery part Battery install and suggested

Smart-UPS Industrial On-Line 120VAC Output

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 12 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

Service Bypass Unit with Generator Input

Removes the UPS for service without disrupting the operation of the traffic signal while allowing for

generator input power Part number:XS30ALLXXR2G



Battery Heater Mat

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

Part numbers: XM050DXXXA - Battery Heater Mat 256 Sq In. 120VAC XM102DXXXA - 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

Service Bypass Unit

Removes the UPS for service without disrupting the operation of the traffic signal

Part number:XS30ALLXXR2



Trusted power protection for Intelligent Transportation Systems



Technical Specifications



Product SKU	XU1K3LLXXRCC	XU2K0LLXXRCC				
Output						
Output Topology	Double Conve	Double Conversion On-Line				
Nominal Output Voltage	120	120 VAC				
Output Power Rating	1300W, 1300VA	1800W, 2000VA				
Output Voltage Regulation (static)	±	1%				
Output Frequency (nominal)	50/60 H	50/60 Hz ± 3 Hz				
Output Waveform	Pure S	Pure Sinewave				
Input						
Nominal Input Voltage	120	120 VAC				
Input Voltage Range	85 to 1	85 to 155 VAC				
Input Frequency	40 to	40 to 70 Hz				
Input Connection	Single phase, 3 wire (Li	Single phase, 3 wire (Line, Neutral and Ground)				
Communication and Management						
Interface Ports	Ethernet via Embedded Network	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				
Environment						
Temperature - Operation	-40 to 74° C (-40 to 74° C (-40 to 165° F)				
Temperature - Storage (without batteries)	-40 to 85° C (-40 to 85° C (-40 to 185° F)				
Maximum Elevation - Operating	0 to 3,000 m	0 to 3,000 m (0 to10,000 ft)				
Maximum Elevation - Storage	0 to 15,000 m	0 to 15,000 m (0 to 50,000 ft)				
Humidity	0% to 95% relative hu	midity, non-condensing				
Physical						
Unit Weight without Packaging	10 kg (2	10 kg (22.05 lb)				
Unit Weight with Packaging	12 kg ((26.5 lb)				
Unit Dimensions without Packaging Width x Depth x Height		432 mm x 260 mm x 88 mm (17.01 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)				
Conformance						
Warranty	3-year factory warranty with	3-year factory warranty with optional extended warranty				
External Batteries						
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 www.ap	Please refer to www.apc.com for runtime charts				
Battery Harness Kit						
SKU	XHXXS7A4F	XHXXS7A8F				
Descriptions	SBS75 cabinet accessory 4 ft	SBS75 cabinet accessory 12 ft				





Technical Specifications – Service Bypass Unit

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Product SKU	XS30ALLXXR2G	XS30ALLXXR2		
Output				
Nominal Output Voltage	120 Vac			
# of Outlets	1			
Outlets Connection type	4 pole PP45 power pole connector			
Overload protection	No			
Input				
Nominal Input Voltage	120 Vac			
Current Rating	30A Max			
Input Frequency	50 to 60 Hz			
Recommended Input circuit Breaker	30A ,Dual pole branch rated			
Generator Input	120 Vac	N/A		
Environment				
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 to 3,000 m (0 to10,000 ft)			
Maximum Elevation - Storage	0 to 15,000 m (0 to 50,000 ft)			
Humidity	0% to 95% relative humidity			
Protection Class	IP20			
Physical				
Unit Weight without Packaging	2.2 kg (4.9 lb)	1.25 kg (2.8 lb)		
Unit Weight with Packaging	5.7 kg (12.6 lb)	4.5 kg (9.9 lb)		
Unit Dimensions without Packaging Width x Depth x Height	432 mm x 100 mm x 88 mm (17 in x 3.93 in x 3.5 in)	280 mm x 72 mm x 88 mm (11 in x 2.8 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)	460 mm x 295 mm x 190 mm (18.1 in x 11.6 in x 5.9 in)		
Conformance				
Safety	UL-1778 (CSA 107.3 for Canada)			
CALTRANS	Caltrans Specification (TEES) March 12, 2009 version			
Warranty	3-year factory warranty			







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