

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, double-conversion 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



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

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

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

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 Smart-UPS Industrial?

"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







- Easily Replaceable Filter
- 2 Easily Replaceable Fan Assembly
- 3 Serial port to communicate with the Smart-UPS Industrial
- 4 External Battery Circuit Breaker to connects/disconnect battery power
- 5 USB Port
- 6 Universal I/O Port to connect optional environmental monitoring accessories
- Reset Button to restart the Network Management Interface
- 8 Ethernet Port for network communication
- 9 Status LEDs
- LCD for real-time status updates and UPS control

- 11 Battery Communication Connector
- External bypass box interface (RS485 and +24 VDC power)
- Input AC Circuit Breaker to connects/disconnects AC power
- 4 AC Input Connector
- 15 AC Output Connector
- 16 Relay Input Connector
- 17 Battery Test Points
- 18 Relay Output Connector
- Battery Temperature Sensor Connector (Sensor cable and mating connector are supplied with the battery harness kit)
- Battery 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.

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)

Enables 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 leadacid batteries. Extended temperature batteries best suited for harsh environments.

Part numbers:

XB102XX1XS - Battery 100Ah 12VDC - 4 batteries per UPS XB050XX1XS - Battery 50Ah 12VDC - 4 batteries per UPS

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 awareness and control

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 Industrial Edge



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 Si	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 N	Ethernet via Embedded Network Management Card (NMC 2) & 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	0% to 95% relative humidity, non-condensing	
Protection Class	IP	IP20	
Physical			
Unit Weight without Packaging	10 kg (2	10 kg (22.05 lb)	
Unit Weight with Packaging	12 kg (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 (require 4 batteries per UPS)	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.apo	Please refer to www.apc.com for runtime charts	
Battery Harness Kit			
SKU	XHXXS7A4F (4ft in length)	XHXXS7A8F (12ft in length)	



Technical Specifications – Service Bypass Unit





Product SKU	XS30ALLXXR2G	XS30ALLXXR2
Output		
Nominal Output Voltage	120VAC	
# 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	50/60 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	3,000 m (10,000 ft)	
Maximum Elevation - Storage	15,000 m (50,000 ft)	
Humidity	0% to 95% relative humidity, non-condensing	
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	





www.apc.com/secure-ups

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