



# SP 1250LX

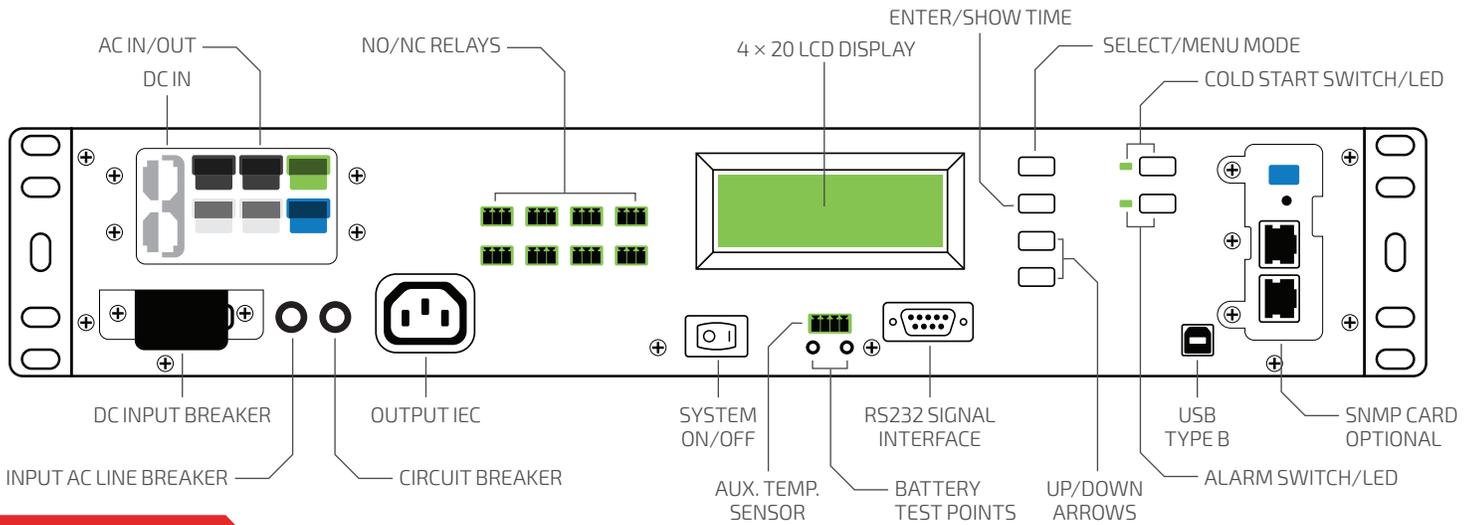
Online UPS with integrated PIM and programmable display



## Overview

The SP 1250LX features an integrated Power Interface Module and programmable display. The LX Series are advanced UPS that provide clean, regulated dual conversion power for controllers and other sensitive equipment inside the traffic cabinet. Rated for 1250 VA/875 W, with operational temperature of -40°C to +74°C (-40°F to 165°F), the SP 1250LX has been independently tested and certified to comply with NEMA temperature standards as well as

NEMA standards for shock and vibration. Compatible with most existing traffic cabinets, the SP 1250LX can be rack or shelf mounted and can be configured with either front or rear power connectors. The SP 1250LX provides full operation in intersections with all LEDs. Advanced communication features allow monitoring, configuration and control of the system over RS232, modem or network connections. Available with battery bus voltages of 48 V or 72 V.



## Features

- Space saving design: 2U vertical rack space
- On-line, conditioned, regenerated power for cabinet equipment protection
- Operates in extreme environments from -40°C to +74°C (-40°F to +165°F)
- Power quality analytical data recorded and exportable to Excel in CSV format
- USB connectivity with monitoring center or other equipment
- Power factor corrected for reliable and safe power





# Specifications

## Electrical Input

Voltage	75 VAC to 155 VAC (before going to batteries)
Frequency	45 Hz to 65 Hz

## Electrical Output

Voltage	120 VAC $\pm$ 3%
Frequency	50 Hz or 60 Hz
Current	10.4 A
Rating	1250 VA / 875 W
Crest Factor Ratio	<ul style="list-style-type: none"> <li>· 50% load up to 4.8:1</li> <li>· 75% load up to 3.2:1</li> <li>· 100% load up to 2.4:1</li> </ul>
THD	4.00% maximum
Dynamic Response	$\pm$ 4% for 100% step load change 0.5 ms recovery time
Overload	<ul style="list-style-type: none"> <li>· 110% for 10 sec</li> <li>· 200% for 50 ms</li> </ul>
UPS Protection	<ul style="list-style-type: none"> <li>· Input and output short circuit</li> <li>· Input and output overload</li> <li>· Excessive battery discharge</li> </ul>

## Environmental

Temperature	-40°C to +74°C (-40°F to +165°F)
Humidity	0% to 95% non-condensing
Altitude	Sea level to 10,000 ft

## Mechanical

Input	Hardwired to bypass box
Outputs	Hardwired to bypass box, with single 15 Amp receptacle
Dimensions (H x W x D)	3.5" x 19.0" x 10.0" (2U)
Weight	13 lb
Cooling	<ul style="list-style-type: none"> <li>· Low velocity</li> <li>· Forced air</li> </ul>

## Design

Standard Features	<ul style="list-style-type: none"> <li>· Power factor corrected input</li> <li>· Fully regenerative</li> <li>· True on-line continuous power</li> <li>· Low distortion sine wave output</li> <li>· Designed for non-linear loads</li> <li>· Extended brownout protection</li> <li>· EIA/RS232 data interface</li> </ul>
Certifications	<ul style="list-style-type: none"> <li>· IEEE 587/ANSI C62.4</li> <li>· IEC 555 @ 120 VA</li> <li>· NEMA</li> </ul>
Typical Recharge Time (to 85% capacity @ 100% load)	48-72 hrs (more time required with extended battery option)

## Control and Indicators

Switches / Control Panel	<ul style="list-style-type: none"> <li>· System power</li> <li>· Cold start</li> <li>· Test</li> <li>· Alarm silence</li> <li>· Four line LCD display panel</li> </ul>
Alarms	<ul style="list-style-type: none"> <li>· Utility interrupt</li> <li>· Inverter failure</li> <li>· Overload</li> <li>· Low battery</li> <li>· Self test</li> </ul>
Intelligent Computer Interfaces	<ul style="list-style-type: none"> <li>· Serial interface for EIA 232</li> <li>· 1 each DB9-F (RS232 and signal interface pins) and 1 each USB</li> <li>· Full interactive remote computer monitoring and control of most features including load control (requires optional monitoring software)</li> <li>· NTCIP and TCP/IP ready</li> </ul>
Contact Closures	<ul style="list-style-type: none"> <li>· "D" connector</li> <li>· Open collector</li> </ul> (see user manual for additional interface information)

## Options

SNMP Interface	Allows full control and monitoring interface over network connection. Compatible with HP Openview™, IBM Netview™, CA Unicenter TNG™, and other major software offerings.
Battery Bus Voltage	48 V or 72 V