



Uninterruptible Power for Traffic, IT & Security Applications

SP1250LE

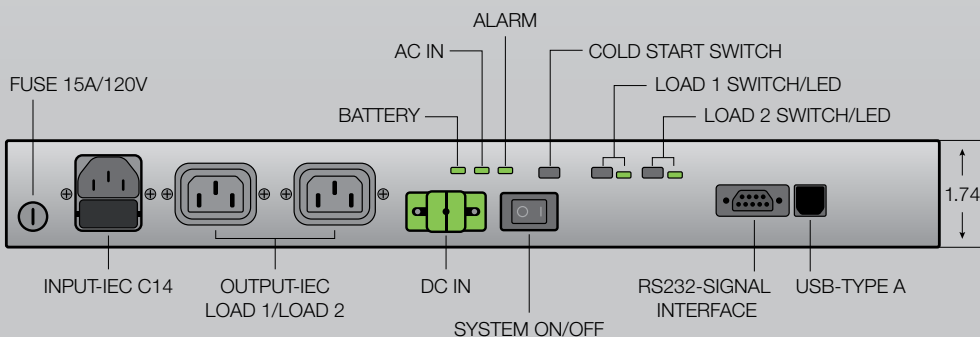


SP1250LE Universal Power Conditioner/UPS Featuring: Online, Dual Conversion Technology

The SP1250LE Universal Power Conditioner is a Power Factor Corrected 875 watt, 1250VA device designed to enhance utility power or repair failing utility power in Traffic, IT or Security Cabinets. The SP1250LE can also operate as an On-line, Dual Conversion, UPS when the optional battery pack is configured. This optional feature can extend the reliability of the cabinet when the utility power fails (black out) or falters (brown out). The SP1250LE system also protects the cabinet by insuring that no harmful power artifacts arrive at the cabinet to destroy or degrade the cabinet electronics. CLARY's industry proven on-line, true-sinewave power protects the cabinet 100% of the time to insure reliable and continuous error free operation.

Quick Read Features:

- **Space Saving Design:**
1U Vertical Rack Space
- **On-Line, Conditioned, Regenerated Power for Cabinet Equipment Protection**
- **USB Connectivity with Monitoring Center or Other Equipment**
- **Power Factor Corrected for Reliable & Safe Power**
- **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**



SP1250LE Specifications

Electrical

Input

Voltage 120 VAC, (85Vac to 155Vac before going to battery, when configured with batteries)

Frequency 40 to 70 Hz

Output

Voltage 120 VAC $\pm 3\%$

Frequency 50 or 60 Hz $\pm .25\%$
(Software Selectable)

Current 10.0A (875W / 1250VA)

Crest Factor Ratio (Non-linear Load and < 5% THD) Typical
@50% Load Up to 4.8:1
@75% Load Up to 3.2:1
@100% Load Up to 2.4:1

Total Harmonic Distortion (THD) 3.0%

Dynamic Response $\pm 4\%$ for 100% Step Load Change, 0.5 ms Recovery Time

Overload 110% for 10 seconds;
200% for 50 milliseconds

UPS Protection Input and Output Short Circuit, Input and Output Overload, Excessive Battery Discharge

Mechanical

Input IEC-320, C14 male connector

Outputs IEC-320, C13 female receptacles (2)

Overall Dimensions 15.25" W x 8.5" D x 1.7" H

Environmental

Operating Temperature -40°F to $+165^{\circ}\text{F}$ (-40°C to $+74^{\circ}\text{C}$)

Humidity 0% to 95% non-condensing

Altitude Sea Level to 10,000 Feet

Optional Battery Module SP48SB

Options

Battery Chassis External Battery Chassis supports UPS capability. Provides 3 minutes of back-up time at 100% load. Consult Factory for other Battery and Battery Chassis Options.

Rack Mount Hardware

Design

Standard Features Power Factor Corrected Input; Fully Regenerative; True On-Line Continuous Power; Low Distortion Sinewave Output; Designed for Non-linear Loads; Extended Brownout Protection

Specifications Meets FCC Class A, IEEE 587/ANSI C62.41, IEC 555 @120 VAC and NEMA Standards

MTBF Inverter: > 100,000 hrs
System Calculated from Component Specifications

Typical Recharge Time to 85% Capacity @ 100% Load 3 to 5 hrs (with extended battery option)

Controls and Indicators

Visual Indicators Battery Status; AC Output; AC Input; Alarm

Control Switches Power On/Off; Cold start; Load

Audible Alarms Utility Interrupt; Inverter Failure; Overload; Low Battery; Over Temperature

Intelligent Computer Interfaces 1 each DB9-F (RS232 and Signal Interface pins) and 1 each USB

Power and Event Recorder

Power Recorder Stores 7 days of real time power data concerning input power, output power, and battery capacities

Event Recorder Stores last 1000 events (with time/date) of power status changes based on user-defined metrics

Specifications subject to change without notice.

