



SP 560

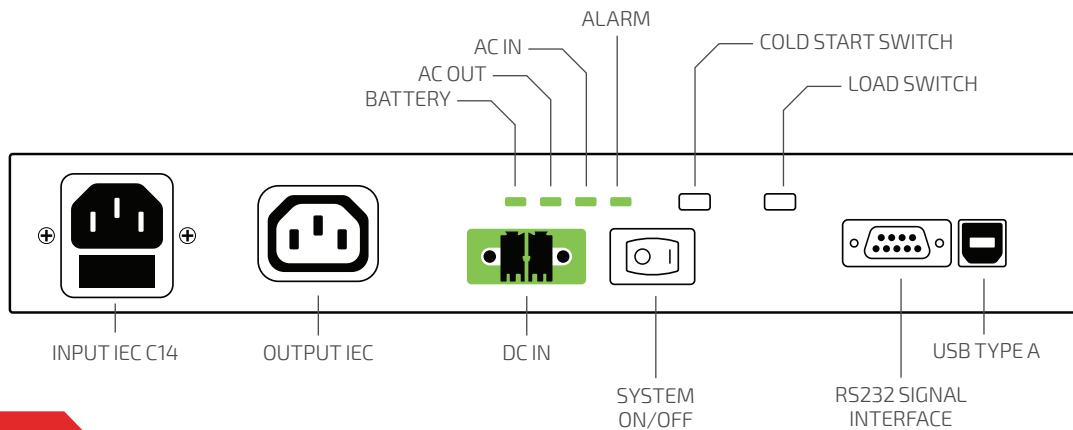
Compact UPS that delivers uncompromising protection



Overview

The compact SP 560 from Clary delivers on-line protection 100% of the time, for reliable, continuous error-free operation, regardless of utility power quality. Occupying only 1U of vertical rack space, it can fit into any cabinet. Clary's SP 560 is a 560 VA / 400 W power source built for electronics equipment in ITS, traffic and security applications, delivering constant, conditioned, regenerated AC power. It protects equipment from being disrupted, degraded or damaged due to harmful power events. Clary power conditioning completely isolates the cabinet from utility power enabling

error-free operation during surges, sags, spikes, and other power anomalies. With an optional battery pack, the SP 560 system operates as an on-line, double-conversion UPS, extending the reliability of the cabinet's electronics during utility power failures (black-outs). The SP 560 is power factor corrected to reduce utility current draw and wiring requirements. Designed for indoor/outdoor use, the Clary SP 560 will operate in temperature extremes from -40°C to +74°C (-40°F to 165°F) and it communicates locally or remotely via serial, USB or an optional web agent.



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 and safe power
- Operates in extreme environments from -40°C to +74°C (-40°F to +165°F)





Specifications

Electrical Input

Voltage	120 VAC (85 VAC to 155 VAC before going to battery, when configured with batteries)
Frequency	40 Hz to 70 Hz

Electrical Output

Voltage	120 VAC \pm 3%
Frequency	Software selectable to sync with input utility or run at crystal controlled 50/60 Hz \pm 1 Hz
Current	4.8 A
Rating	560 VA / 400 W
Crest Factor Ratio	<ul style="list-style-type: none"> · 50% load up to 4.8:1 · 75% load up to 3.2:1 · 100% load up to 2.4:1
THD	3.00%
Dynamic Response	\pm 4% for 100% step load change 0.5 ms recovery time
Overload	<ul style="list-style-type: none"> · 110% for 10 sec · 200% for 50 ms
UPS Protection	<ul style="list-style-type: none"> · Input and output short circuit · Input and output overload · Excessive battery discharge

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	IEC-320, C14 male connector
Outputs	IEC-320, C13 female receptacles (2)
Dimensions (H x W x D)	1.7" x 11.0" x 8.5" (1U)
Weight	5 lb
Cooling	<ul style="list-style-type: none"> · Low velocity · Forced air

Design

Standard Features	<ul style="list-style-type: none"> · Power factor corrected input · Fully regenerative · True on-line continuous power · Low distortion sine wave output · Designed for non-linear loads · Extended brownout protection
Certifications	<ul style="list-style-type: none"> · FCC Class A · IEEE 587/ANSI C62.4 · IEC 555 @ 120 VA · NEMA
Typical Recharge Time (to 85% Capacity @ 100% Load)	<ul style="list-style-type: none"> · 3 to 5 hrs with SP 48SB battery pack · 48 to 72 hrs with Outpost or Garrison batteries

Control and Indicators

Visual Indicators	<ul style="list-style-type: none"> · Battery status · AC output · AC input · Alarm
Switches / Control Panel	<ul style="list-style-type: none"> · System power · Cold start · Load I
Audible Alarms	<ul style="list-style-type: none"> · Utility interrupt · Inverter failure · Overload · Low battery
Intelligent Computer Interfaces	<ul style="list-style-type: none"> · 1 each DB9-F (RS232 and signal interface pins) · 1 each USB

Options

External Battery Pack	SP 48SB battery pack. Compact design. Ideal for runtime requirements less than an hour.
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SP 48SB BATTERY PACK