Ruggedized, Fan less, Waterproof Uninterruptible Power for Traffic, IT & Security Applications

Industry proven, on-line protection, 100% of the time, for reliable and continuous error-free operation, regardless of utility power quality.

The CLARY SX560 is a 400W/560VA 120VAC power source for electronics equipment in IT, Traffic, and Security applications. The SX560 delivers constant, conditioned, regenerated AC power which 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 SX560 system operates as an On-Line, Double-Conversion UPS that extends the reliability of the cabinet’s electronics during utility power failures (black-outs). The SX560 is Power Factor Corrected to reduce utility current draw and wiring requirements.

Designed for harsh environments with no forced air cooling. The fully sealed enclosure will meet IP67 seal, sand, dust and MIL-STD-810A drop, shock & vibration requirements. The Clary SX560 will operate in temperature extremes from -40°C to 70°C.

1U of Vertical Rack Space, its 9 ½” x 12 ½” footprint can fit any cabinet.

The SX560 communicates locally or remotely via serial, USB or an optional web agent.

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)
- No forced air, cooled through Chassis. Dust and sand resistant, waterproof.
# SX560 Specifications

## Electrical

<table>
<thead>
<tr>
<th>Input</th>
<th>120 VAC, (85VAC to 155VAC before going to battery, when configured with batteries)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>120 VAC ±3%</td>
</tr>
<tr>
<td>Frequency</td>
<td>40 to 70 Hz</td>
</tr>
<tr>
<td>Output</td>
<td></td>
</tr>
<tr>
<td>Voltage</td>
<td>120 VAC ±3%</td>
</tr>
<tr>
<td>Frequency</td>
<td>50 or 60 Hz ±.25% (Software Selectable)</td>
</tr>
<tr>
<td>Current</td>
<td>4.8A (400W / 570VA)</td>
</tr>
</tbody>
</table>
| Crest Factor Ratio (Non-linear Load and < 5% THD) | @50% Load Up to 4.8:1  
                   @75% Load Up to 3.2:1  
                   Typical @100% Load Up to 2.4:1 |
| Total Harmonic Distortion | (THD) 3.0%                                                                    |
| Dynamic Response | ±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

<table>
<thead>
<tr>
<th>Input</th>
<th>Anderson SK1-019M03 male connector-sealed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outputs</td>
<td>Anderson SK7-019M03 female receptacle-sealed</td>
</tr>
<tr>
<td>Overall Dimensions</td>
<td>12 ½” W x 9 1/2” D x 1.7”H</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40°F to +165°F (-40°C to +74°C)</td>
</tr>
<tr>
<td>Humidity</td>
<td>0% to 95% non-condensing</td>
</tr>
<tr>
<td>Altitude</td>
<td>Sea Level to 10,000 Feet</td>
</tr>
</tbody>
</table>

## Options

| Battery Chassis | External Battery Chassis supports UPS capability. Provides 6 minutes of back-up time at 100% load. Consult Factory for other Battery Options and Extended Run Times. |
| Rack or Wall Mount | Designed to provide 19” Rack mounting capability. |
| By-pass Switch | Supports manual and automatic switching of SX560. |

## 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, IP67 and NEMA Standards |
| MTBF              | Inverter: > 100,000 hrs System Calculated from Component Specifications |
| Typical Recharge Time to 85% Load Capacity @ 100% Load | 3 to 5 hrs (with extended battery option) |

## Controls and Indicators

| Visual Indicators | Battery Status; AC Output; AC Input; Alarm |
| Switches          | System Power; Cold start; Load |
| Audible Alarms    | Utility Interrupt; Inverter Failure; Overload; Low Battery; Over Temperature |
| Intelligent Computer Interfaces | DB9-F (RS232 and Signal Interface pins) and 1 USB |

[Image of SX560 specifications]