

SX560

SX=Super Extreme Environment

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.

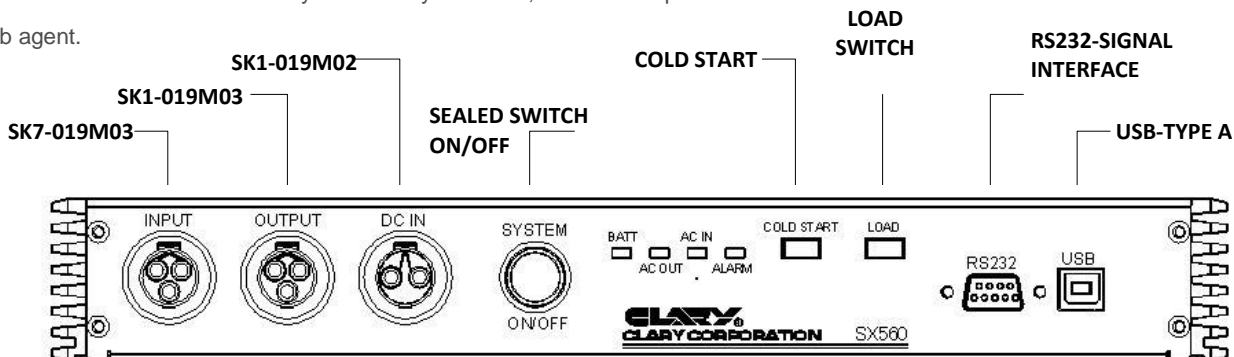
Designed for harsh environments with no forced air cooling. The fully sealed enclosure will meet IP67 seal, sand, dust and MIL-STD-810A drop, shock & vibration requirements. The Clary SX560 will operate in temperature extremes from -40 C to 70 C.

1U of Vertical Rack Space, its 9 1/2" x 12 1/2" 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

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	4.8A (400W / 570VA)
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	\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	Anderson SK1-019M03 male connector-sealed
Outputs	Anderson SK7-019M03 female receptacle-sealed
Overall Dimensions	12 1/2" W x 9 1/2" D x 1.7"H
Operating Temperature	-40°F to +165°F (-40°C to +74°C)
Humidity	0% to 95% non-condensing
Altitude	Sea Level to 10,000 Feet

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% 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

