

WHEN DOWNTIME IS NOT AN OPTION!



SX1115RL

SURGE SUPPRESSOR & POWER CONDITIONER

With *Advanced Series Mode™* Surge Protection, *Impedance Tolerant®* EMI/RFI Filtering, *SurgeX ICE®* Inrush Current Elimination, and *COUVS™* Catastrophic Over/Under-Voltage Shutdown

The *SurgeX SX1115-RL* is designed for recording studios, custom design/build installations and sound reinforcement applications. It has front-panel connectors and a dimmer control for 2 *Littlite®* goose-neck lamps.

The SX1115-RL provides guaranteed surge protection and power conditioning for audio, video and computer equipment. The units are 15-amp load-capable and have 8 standard grounded AC receptacles (6 switched, 2 always on).

SurgeX Advanced Series Mode surge suppression technology is superior to conventional MOV circuitry and MOV-hybrid designs. It has no let-through voltage, provides reliable pro-

tection, and stops multiple surges of up to 6,000 volts and unlimited surge current without producing ground contamination or common-mode disturbances.

The units also feature advanced *Impedance Tolerant* EMI/RFI filtering circuitry for additional power conditioning, and *COUVS* catastrophic over/under-voltage shutdown circuitry to prevent damage from brownouts and line-fault events.

The SX1115-RL meets the most demanding government purchase specifications for branch-circuit surge suppressors. Its A-1-1 rating means dependable protection from destructive spikes, surges and inductive transients.



Professional AC Power Products

www.surgex.com

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SPECIFICATIONS

Load Rating: 15 amps @ 120 volts.
Power Requirement (no load): 15 watts.
Surge Let-Through Voltage (6000-volt surge): 0 volts.
UL 1449 Adjunct Classification Test Results: 1000 surges, 6000 volts, 3000 amps, B3 pulse. Measured suppressed voltage: 170 volts, no failures.
Federal Guidelines: Grade A, Class 1, Mode 1 (CID A-A-55818).
EMI/RFI Filter, Normal Mode (50-ohm load): 40 dB @ 100 kHz; 50 dB @ 300 kHz; 50 dB @ 3 MHz; 50 dB @ 30 MHz
EMI/RFI Filter, Common Mode (50-ohm load): 18 dB @ 300 kHz; 30 dB @ 1 MHz; 50 dB @ 5 MHz; 50 dB @ 20 MHz
Maximum Applied Surge Voltage: 6000 volts.*
Maximum Applied Surge Current: Unlimited, due to current limiting.*
Maximum Applied Surge Energy: Unlimited, due to current limiting.*
Endurance (C62.41-1991 Category B3 pulses): 1 kV>500,000; 3 kV>10,000; 6 kV>1000.
Undervoltage Shutdown: 90 volts (resume at 100 volts)
Overvoltage Shutdown: 145 volts (resume at 135 volts)
Maximum Load Inrush Current During Power-up: 1000 Joules
Littlite Connectors: 12 volts AC, 500 mA
Dimensions: 1.75" H x 19" W x 10.5" D (4.5 x 48.3 x 26.7 cm)
Weight: 11 lbs (5 kg)
Temperature Range: 5° to 35° C
Humidity Range: 5% to 95% r.h., non-condensing.
Agency Listings: ETL (UL 1449-2)

*1.2 x 50 μ s pulse, industry standard combination wave surge, as per IEEE C62.41.

**NO
MOVs**

TECHNICAL DESCRIPTION

The surge suppressor shall be a rack-mounted unit in a magnetic shielding steel enclosure. It shall operate from 120 volts AC and have a 9-foot, grounded, 3-wire #14 line cord. There shall be 8 three-prong AC receptacles on the back panel, with 6 switched and 2 always on. There shall be connectors and a dimmer for 2 Littlite gooseneck lamps on the front panel. Overall dimensions shall be 1.75" H x 19" W x 10.5" D. Weight shall be 11 pounds.

The surge suppressor shall have a load rating of 15 amps at 120 volts, a self-test circuit with visual indicator, and provide EMI/RFI filtering, inrush current elimination and catastrophic over/under-voltage shutdown. It shall meet Federal Grade A, Class 1, Mode 1 guidelines for power-line surge suppressors and withstand at least 1000 occurrences of surge pulse voltages up to 6000 volts. The power-quality filter shall have 4 circuits: a series surge reactor that limits surge current, a cascaded auto-tracking dual-polarity capacitor bridge that limits pulse voltage, dual capacitor pulse discriminators, and a transient voltage cancellation transformer. The capacitor bridge shall clamp transients 2 volts above the power-wave peak voltage and a transformer winding shall cancel residual transient voltage at the output.

FEATURES

- Made in U.S.A.
- Magnetic shielding steel enclosure
- 9' grounded 3-wire #14 line cord
- 8 grounded AC outlets on rear panel (6 switched, 2 always on)
- *Advanced Series Mode* surge protection
- *Advanced Impedance Tolerant* EMI/RFI filtering
- *SurgeX ICE* inrush current elimination technology
- *COUVS* catastrophic over/under-voltage shutdown
- Front-panel connectors and dimmer for Littlite lamps
- Thermal circuit breaker overload protection
- Self-test circuit with visual indicator

SURGEX®

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