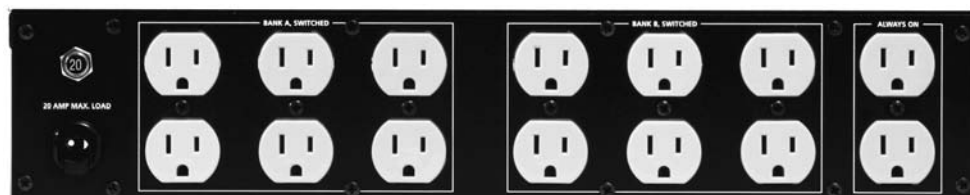




THE WORLD LEADER IN  
POWER CONDITIONING TECHNOLOGIES



# SX2120

## **SURGE ELIMINATOR & POWER CONDITIONER**

- **Advanced Series Mode®** Surge Protection
- **Impedance Tolerant®** EMI/RFI Filtering

**The SurgeX SX2120 provides guaranteed surge protection and power conditioning for audio, video, broadcast and computer equipment.** SX2120 surge eliminators are 20-amp load-capable and have 14 industrial grade grounded AC receptacles (2 switched banks of 6; 2 always on) plus a front-panel courtesy receptacle.

The unit features both common mode and normal mode *Impedance Tolerant* EMI/RFI filtering for a comprehensive power conditioning solution.

SurgeX *Advanced Series Mode* technology is superior to conventional MOV circuitry or MOV-Hybrid designs and is completely non-sacrificial. Our zero let-through technology provides the most reliable protection available. It stops all surges up to 6,000 volts (unlimited surge current) without producing harmful side effects such as ground contamination or common-mode disturbances.



Professional AC Power Products

[www.surgex.com](http://www.surgex.com)

**10-YEAR WARRANTY**

# SX2120

## SURGE ELIMINATOR & POWER CONDITIONER

- **Advanced Series Mode®** Surge Protection
- **Impedance Tolerant®** EMI/RFI Filtering

### SPECIFICATIONS

**Load Rating:** 20 amps @ 120 volts.

**Power Requirement (no load):** 10 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.

**Dimensions:** 3.5" H x 19.0" W x 10.5" D  
(8.9 x 48.3 x 26.7 cm)

**Weight:** 16 lbs (7.3 kg)

**Temperature Range:** 5° to 35° C

**Humidity Range:** 5% to 95% R.H., non-condensing.

**Agency Listings:** ETL and cETL (UL 1449, 2nd edition; CSA C22.2 No.8-M1986, R2000)

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

### TECHNICAL DESCRIPTION

The SX2120 shall be a two-rack-space unit in a magnetic shielding steel enclosure. It shall operate from 120 volts AC and have a 9-foot, grounded, 3-wire #12 line cord. There shall be 12 grounded AC receptacles in two banks of six on the back panel, each bank with master power switch, as well as two receptacles always on, and one frontpanel courtesy receptacle. There shall be a self-test circuit with visual indicator. Overall dimensions shall be 3.5" H x 19" W x 10.5" D. Weight shall be 16 pounds.

The SX2120 shall have a load rating of 20 amps at 120 volts, a self-test circuit with visual indicator and provide EMI/RFI filtering. It shall meet Federal Grade A, Class 1, Mode 1 guidelines for powerline surge suppressors and withstand at least 1000 occurrences of surge pulse voltages up to 6000 volts.

### FEATURES

- Magnetic shielding steel enclosure
- 9' grounded 3-wire #12 line cord
- 12 grounded AC receptacles in two switched banks of six on rear panel, 2 receptacles always on
- Front panel courtesy receptacle
- Advanced *Series Mode* surge protection
- Advanced *Impedance Tolerant* EMI/RFI filtering
- Two power switches, one for each bank of outputs
- Thermal circuit breaker overload protection
- Self-test circuit with visual indicator
- 10-year warranty
- **Made in U.S.A.**



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[www.surgex.com](http://www.surgex.com)

Specifications subject to change without notice. *SurgeX* is a division of New Frontier Electronics Inc.

This product, including its components and/or processes carried out thereby, are covered by one or more of the following:  
U.S. Pat. No. 4,870,534; 4,870,528; 6,728,089; 6,744,613; 7,068,487. Can. Pat. No. 1,333,191; 1,332,439. Other Patents Pending.