

# **SURGEX**<sup>®</sup>

THE WORLD LEADER IN  
POWER CONDITIONING TECHNOLOGIES



# SA20

## **SURGE ELIMINATOR & POWER CONDITIONER**

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

The SA-20 is specifically designed to upgrade and improve surge protection for audio, video, broadcast, computer and all sensitive electronic equipment. When fitted with the optional mounting brackets these standalone units easily mount where you need them. The SA-20 is rated for 20 amps and has two industrial grade grounded AC receptacles. 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.



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Professional AC Power Products

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

10-YEAR WARRANTY

# SA20

## SURGE ELIMINATOR & POWER CONDITIONER

- **Advanced Series Mode<sup>®</sup> Surge Protection**
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### 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:** 4.0" H x 10.2" W x 4.2" D  
(10.2 x 25.9 x 10.7 cm)

**Weight:** 8.5 lbs (3.8 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  $\mu$ s pulse, industry standard combination wave surge, as per IEEE C62.41.

### TECHNICAL DESCRIPTION

The surge eliminator shall be a compact standalone 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 2 grounded AC receptacles. Overall dimensions shall be 4.0" H x 10.2" W x 4.2" D. Weight shall be 8.5 pounds.

The surge eliminator 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
- 2 grounded AC receptacles
- Advanced *Series Mode* surge protection
- Advanced *Impedance Tolerant* EMI/RFI filtering
- Self-test circuit with visual indicator
- 10-year warranty
- **Made in U.S.A.**

**NO  
MOV**



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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.