

SURGEX®

THE WORLD LEADER IN
POWER CONDITIONING TECHNOLOGIES



SX20 NE

SURGE ELIMINATOR & POWER CONDITIONER

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

The SurgeX SX20 NE provides guaranteed surge protection and power conditioning for audio, video, broadcast and computer equipment. SX20 NE units are 20-amp load-capable, 10" x 8" x 4" NEMA enclosures and meet code for use at the service entrance, sub-panels and in ceiling plenums.

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.



SURGEX®

Professional AC Power Products

www.surgex.com

10-YEAR WARRANTY

SX20 NE

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): 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.

LED Output: 12 volts DC, maximum 20 mA (resistor required)

Dimensions: 10.0" H x 8.0" W x 4.0" D
(25.4 x 20.3 x 10.1 cm)

Weight: 9 lbs (4.0 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 μ s pulse, industry standard combination wave surge, as per IEEE C62.41.

TECHNICAL DESCRIPTION

The SX20 NE shall be housed in a magnetic shielding NEMA steel enclosure. It shall operate from 120 volts AC and have a barrier strip accessible through knock-outs in the enclosure for hardwiring power input and output connections. Overall dimensions shall be 10.0" H x 8.0" W x 4.0" D. Weight shall be 9.0 pounds.

The SX20 NE 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
- 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_s**



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6131 Kellers Church Road • Pipersville, PA 18947

PH 215-766-1240 • FAX 215-766-9202

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.