

SURGEX[®]

THE WORLD LEADER IN
POWER CONDITIONING TECHNOLOGIES



SA966

SURGE PROTECTOR & POWER CONDITIONER

- *Series Mode*[®] Surge Protection

The SA966 provides guaranteed surge protection for audio, video, broadcast, computer and all sensitive electronic equipment. The unit is rated for 8 amps and features six industrial grade grounded AC receptacles. When fitted with the optional mounting brackets these standalone units easily mount where you need them.

SurgeX *Series Mode* technology is superior to conventional MOV circuitry or MOV-Hybrid designs and is completely non-sacrificial. 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

SA966

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SPECIFICATIONS

Load Rating: 8 amps @ 120 volts;

Power Requirement (no load): 10 watts.

UL 1449-2 Adjunct Classification Test Results:

1000 surges, 6000 volts, 3000 amps, C1 pulse,
measured suppressed voltage 290 volts, no failures.

Federal Guidelines: Grade A, Class 1, Mode 1
(CID A-A-55818).

Clamping Voltage Onset: 172 volts nominal (2 volts
above peak line voltage, auto-tracking).

Filter (bi-directional, wave tracking): With 50 ohm
load: 3 dB @ 3 kHz; 38 dB @ 100 kHz;
50 dB @ 300 kHz

Maximum Applied Surge Pulse Joule Rating:

Unlimited, due to current limiting (8 x 20 μ s).

Maximum Applied Surge Pulse Voltage:

6000 volts (1.2 x 50 μ s pulse), industry standard rating.

Maximum Applied Surge Pulse Current:

100,000 amperes (8 x 20 μ s).

Endurance: IEEE C62.41-1991 Category B3 (C1)

Pulses: 1 kv>500,000; 3 kv>10,000; 6 kv>1000

Dimensions: 3.0" H x 7.5" W x 4.0" D

(7.6 x 19.0 x 10.2 cm)

Weight: 5.4lbs (2.54 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)

TECHNICAL DESCRIPTION

The SA966 shall be a compact standalone unit in a magnetic shielding steel enclosure. It shall operate from 120 volts AC and have a 6-foot, grounded, 3-wire #14 line cord. There shall be 6 grounded AC receptacles. Overall dimensions shall be 3.0" H x 7.5" W x 4.0" D. Weight shall be 5.4 pounds.

The SA966 shall have a load rating of 8 amps @ 120 volts. It shall be listed to UL 1449-2 and meet 1996 Federal Grade A, Class 1, Mode 1 Guidelines for powerline surge suppressors. There shall be three limiter circuits: a series surge reactor current limiter, a cascaded auto-tracking dual-polarity voltage limiter, and a pulse inverter. The onset clamping voltage shall be 172 volts nominal, and the unit shall have an instant-reacting snubber to protect against fast-rising surges generated within the installation location. The surge suppressor shall have an unlimited Applied Surge Current rating (8 x 20 μ s) and shall withstand at least 1000 occurrences of Surge Pulse Voltages up to 6000 volts.

FEATURES

- Magnetic shielding steel enclosure
- 6' grounded 3-wire #14 line cord
- 6 grounded AC receptacles
- *Series Mode* surge protection
- Thermal circuit breaker overload protection
- Self-test circuit with visual indicator
- 10-year warranty
- **Made in U.S.A.**

**NO
MOVs**



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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.