

SURGEX®

THE WORLD LEADER IN
POWER CONDITIONING TECHNOLOGIES



SA82 FLATPAK™

SURGE PROTECTOR & POWER CONDITIONER SPECIFICALLY DESIGNED TO PROTECT FLAT PANEL MONITORS

- *Series Mode*® Surge Protection
- *Impedance Tolerant*® EMI/RFI Filtering
- Over Voltage Shutdown (with Auto Reset)
- Compact design can easily be integrated with monitor mounting systems
- Available in black or silver finish

The SA82 utilizes our patented *Series Mode*® surge protection technology, *Impedance Tolerant*® EMI/RFI filtering and *Over-Voltage-Shutdown* which automatically restores power when line voltage returns to a safe level. The unit's compact design can be easily integrated with today's Flat Panel monitor mounting systems. The FlatPak™ SA82 is available in both black and silver finishes, comes with a detachable IEC power cord and universal mounting brackets.

The SA82 provides guaranteed surge protection and power conditioning for audio, video, broadcast and computer equipment. The units are 8-amp load-capable and have 2 industrial grade grounded AC receptacles.

SurgeX Advanced *Series Mode* technology is superior to conventional MOV circuitry or MOV-Hybrid designs and is completely non-sacrificial. The SA82 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.

Like all SurgeX products, the SA82 is backed by a 10-Year Warranty.



SURGEX®

Professional AC Power Products

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10-YEAR WARRANTY

SA82

SURGE PROTECTOR & POWER CONDITIONER

- **Series Mode[®] Surge Protection**
- **Impedance Tolerant[®] EMI/RFI Filtering**
- **Over Voltage Shutdown (with Auto Reset)**
- **Compact design can easily be integrated with monitor mounting systems**
- **Available in black or silver finish**

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)

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 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:

Unlimited, due to current limiting (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

Overvoltage Shutdown: 145 volts (resume at 135 volts)

Dimensions: 1.75" H x 5.31" W x 9.06" D

Weight: 3.4 lbs

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 SA82 shall be a compact mountable unit in a magnetic shielding steel enclosure. It shall operate from 120 volts AC and include a separate 3-foot, grounded, 3-wire #18 line cord.

There shall be 2 grounded AC receptacles. Overall dimensions shall be 1.75" H x 5.31" W x 9.06" D.

Weight shall be 3.4 pounds.

The SA82 shall have a load rating of 8 amps @ 120 volts. It shall be listed to UL 1449-2 and certified to Federal Grade A, Class 1, Mode 1 Guidelines for powerline surge suppressors. The unit shall provide auto-resetting overvoltage shutdown. 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
- 3' grounded 3-wire #18 line cord (separate)
- 2 grounded AC receptacles
- *Series Mode* surge protection
- Auto-resetting Overvoltage shutdown
- Thermal circuit breaker overload protection
- Self-test circuit with visual indicator
- 10-year warranty
- **Made in U.S.A.**

**NO
MOVs**

SURGEX[®]

Professional AC Power Products

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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.