



# SA-1810 *Advanced* SERIES MODE PRO™ Surge Suppressor and Power Conditioner



Top View



Front View

The SA-1810 provides guaranteed surge protection for audio, video, computer and all sensitive electronic equipment. The unit is rated for 15 amps, features ten industrial grade grounded AC receptacles, *Impedance Tolerant*® EMI/RFI [Common Mode and Normal Mode] filtering and can be fitted with optional mounting brackets. SurgeX patented *advanced Series Mode Pro*™ technology is superior to conventional MOV circuitry. It provides proven, reliable protection; blocking and containing multiple surges of up to 6,000 volts, unlimited current, without noise producing ground contamination. The SA-1810 meets the most stringent government specifications for AC powerline surge suppressors. The A-1-1 rating assures you of dependable protection from destructive spikes,

INDUSTRY EXCLUSIVE 10 YEAR WARRANTY

SURGE PROBLEMS ARE HISTORY!



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# SA-1810 Advanced SERIES MODE PRO™ Surge Suppressor and Power Conditioner

## FEATURES

- Made in U.S.A., Listed to UL 1449-2
- Magnetic shielding steel enclosure
- 6' grounded 3-wire #14 line cord
- Ten grounded receptacles
- Thermal circuit breaker overload protection
- Self-test circuit with visual indicator
- 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)

## SPECIFICATIONS

- **Load Rating:** 15 amps @ 120 volts.
- **UL 1449-2 Adjunct Classification Test Results:** 1000 surges, 6000 volts, 3000 amps, C1 pulse, measured suppressed voltage 290 volts, no failures.
- **1996 Federal Guidelines, Grade A, Class 1, Mode 1:** SA-1810 meets guidelines. Limiters (3 circuits): Series surge reactor current limiter. Cascaded autotracking dual polarity voltage limiter. Dual pulse inverters.
- **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; 50 dB @ 5 MHz; 50 dB @ 30 MHz
- **Let-Through Slew Rate:** 5000 volt/μs disturbance reduced to 28 volt/μs within power wave envelope; less than 10 volt/μs outside power wave envelope.
- **Snubber:** Instant-reacting snubber for fast-rising surges generated within the building.
- **Maximum Applied Surge Pulse Joule Rating:** Unlimited, due to current limiting (8 x 20 μs).
- **Maximum Applied Surge Pulse Voltage:** 6000 volts (1.2 x 50 μs pulse), industry standard rating.
- **Maximum Applied Surge Pulse Current:** 100,000 amperes (8 x 20 μs). Endurance: IEEE C62.41-1991 Category B3 (C1) Pulses: 1 kv>500,000; 3 kv>10,000; 6 kv>1000 (NRTL-UL certified).

## ARCHITECTURAL AND ENGINEERING SPECIFICATIONS

The surge suppressor 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 ten, unswitched, AC grounded receptacles and self-test circuit with visual indicator. Overall dimensions shall be 4.0" H x 10.2" W x 4.2" D (10.2 x 25.9 x 10.7 cm). Weight shall be 8.5 pounds. The surge suppressor shall have a load rating of 15 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 dual pulse inverters. 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 μs) and shall withstand at least 1000 occurrences of Surge Pulse Voltages up to 6000 volts.

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