



# SX1216RTi

## SURGE ELIMINATOR & POWER CONDITIONER

- Advanced *Series Mode*<sup>®</sup> Surge Protection
- *SurgeXICE*<sup>®</sup> Inrush Current Elimination
- Remote Control Capability
- *Impedance Tolerant*<sup>®</sup> EMI/RFI Filtering
- *COUVS*<sup>®</sup> Catastrophic Over/Under-Voltage Shutdown

The SX1216RTi provides guaranteed surge elimination, power conditioning for environments with complex mains distribution systems or system critical boot-up sequences. The SX1216RTi is an ideal power platform product for use in mains power distribution systems and can be interfaced with master control systems and other SurgeX products. Our proven, robust technologies and unmatched level of certification make SurgeX essential for Pro AV, IT, Medical, Government, Military and all mission critical applications.

Switched receptacles can be controlled with an applied voltage (5-30 vdc) or contact closure switch connected to the Phoenix connector on the back panel. The connector can also be used to cascade multiple units or provide status to a central controller.

The SX1216RTi provides guaranteed surge protection and power conditioning for audio, video, broadcast and computer equipment. The units are 16-amp load-capable and have 10 industrial grade earthed IEC/AC receptacles (8 switched, 2 always on) plus a front-panel courtesy receptacle. A rear panel warning light will indicate incorrect polarity of the AC supply.

The unit features both common mode and normal mode *Impedance Tolerant*<sup>®</sup> EMI/RFI filtering, *SurgeXICE*<sup>®</sup> -Inrush Current Elimination and *COUVS*<sup>®</sup> -Catastrophic Over/Under Voltage Shutdown for a complete power conditioning solution.

SurgeX Advanced *Series Mode*<sup>®</sup> 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 earth contamination or common-mode disturbances.



# SURGE<sup>®</sup> International

Professional AC Power Products  
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10-YEAR WARRANTY  
POWER PROTECTION YOU TRUST

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### SPECIFICATIONS

**Load Rating:** 16 amps @ 230 volts, 50Hz / 60Hz

**Power Requirement (no load):** 6 watts.

**Surge Let-Through Voltage (6000-volt surge):**  
0 volts.

**Safety Certification:** IEC/EN 61643-1

**Performance Rating:** Grade A, Class 1, Mode 1

**EMI/RFI Filter, Normal Mode (50-ohm load):** 40dB  
@ 100 kHz; 50 dB @ 300 kHz; 50 dB @ 3 MHz; 50  
dB @ 30 MHz

**EMI/RFI Filter, Common Mode (50-ohm load):**  
18dB @ 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.

**Undervoltage Shutdown:** 180 volts (auto resetting)

**Overvoltage Shutdown:** 280 volts (auto resetting)

**Maximum Load Inrush Current During Power-up:**  
1000 Joules

**Remote Turn-on Applied Voltage Range:** 5 to 30  
volts DC

**Remote Turn-on Current Draw:**

Contact Closure: 1.5 mA

5 V DC Applied Voltage: 0.1 mA

12 V DC Applied Voltage: 1.5 mA

24 V DC Applied Voltage: 5.0 mA

**Auxiliary Relay Contact Rating:** 30 Volts at 1 Amp

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

**Dimensions:** 4.5cm H x 48.3cm W x 26.7cm D  
1.75" H x 19" W x 10.5" D

**Weight:** 5.0 kg (11 lbs)

**Temperature Range:** 5° to 35° C

**Humidity Range:** 5% to 95% R.H., non-condensing.

\*1.2 x 50  $\mu$ s pulse, industry standard combination wave surge, as per  
IEEE C62.41.

### TECHNICAL DESCRIPTION

The SX1216RTi shall be a one-rack-space unit in a magnetic shielding steel enclosure. It shall operate from 230 volts AC 50Hz / 60Hz and have a 2.5m power cord. There shall be 10 earthed AC receptacles on the back panel, with 8 switched and 2 always on. The unit shall have a front-panel courtesy receptacle and remote-control capability with a visual indicator. Overall dimensions shall be 4.5cm x 48.3cm x 26.7cm (1.75"H x 19" W x 10.5"D). Weight shall be 5Kg (11Lbs).

The SX1216RTi shall have a load rating of 16 amps at 230 volts, a self-test circuit with visual indicator, and provide EMI/RFI filtering, inrush current elimination and catastrophic over/under-voltage shutdown. There shall be a rear panel polarity warning indicator. It shall meet 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. The SX1216RTi shall be safety certified to IEC/EN 61643-1.

### FEATURES

- Magnetic shielding steel enclosure
- 2.5m power cord
- 10 earthed AC receptacles on rear panel (8 switched, 2 always on)
- Front panel courtesy receptacle
- Remote control compatible
- Advanced **Series Mode**® surge protection
- Advanced **Impedance Tolerant**® EMI, RFI filtering
- **SurgeX ICE**® inrush current elimination
- **COUVS**® catastrophic over/under voltage shutdown
- Thermal circuit breaker overload protection
- Self-test circuit with visual indicator
- Polarity indicator
- 10-year warranty
- **Engineered in the U.S.A.**



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