

# Rack Mount Surge Elimination

## Premium protection and conditioning for rack equipment



The SurgeX Rack Mount product line provides professional-grade surge elimination and power conditioning for audio, video, and security rack mount equipment. Our top-of-the-line protection is the ultimate solution to safeguard audio video systems that rely on mission critical equipment for optimal performance.

Featuring Advanced Series Mode surge elimination technology, the SurgeX Rack Mount product line safeguards sensitive equipment that relies on audio and video performance. Unlike common protection solutions, our patented protection technology is non-sacrificial and eliminates surge energy up to 6,000 volts without producing harmful side effects such as ground contamination or common-mode disturbances that can degrade the performance of AV systems. With SurgeX, your connected equipment will be protected from destructive spikes, surges, and inductive transients that can cause disruptions and catastrophic damage.

The Rack Mount Surge Elimination product line meets the most stringent government purchase specifications for power line surge suppressors and our A-1-1 rating assures you and your clients of dependable protection from power anomalies that can impact the performance of connected equipment.

### Features:

- Advanced Series Mode® surge elimination
- Eliminates surge energy up to 6,000 Volts
- Improves audio and video performance
- Provides 100% fail-safe, non-sacrificial protection
- COUVS® (Catastrophic Over/Under Voltage Shutdown), SurgeX ICE® (Inrush Current Elimination), Impedance Tolerant® EMI/RFI filtering, and thermal circuit breaker overload protection
- A-1-1 Certified

	Model Number	Plug Configuration		Description
		Input	Output	
	SX-1115-RT	 NEMA 5-15P	 NEMA 5-15R (9x)	Rack Mount Surge Eliminator with Remote, 15A/120V, 1U
	SX-1120-RT	 NEMA 5-20P	 NEMA 5-15R (5x)  NEMA 5-20R (4x)	Rack Mount Surge Eliminator with Remote, 20A/120V, 1U
	SX-1115	 NEMA 5-15P	 NEMA 5-15R (9x)	Rack Mount Surge Eliminator, 15A/120V, 1U
	XR115	 NEMA 5-15P	 NEMA 5-15R (8x)	Rack Mount Surge Eliminator, 15A/120V, 1U in rack, or includes feet for standalone
	XR315	 NEMA 5-15P	 NEMA 5-15R (8x)	Rack Mount Surge Eliminator with Remote, 15A/120V, 1U in rack, or includes feet for standalone

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Technical Specifications	SX-1115-RT/ XR315	SX-1120	SX-1115/ XR115
<b>Load Rating</b>	15 amps @ 120 volts	20 amps @ 120 volts	15 amps @ 120 volts
<b>Power Requirement (no load)</b>	15 watts	15 watts	10 watts
<b>Surge Let-Through Voltage (6000-volt surge)</b>	0 volts	0 volts	0 volts
<b>UL 1449 Adjunct Classification Test Results</b>	1000 surges, 6000 volts, 3000 amps, B3 pulse.	1000 surges, 6000 volts, 3000 amps, B3 pulse.	1000 surges, 6000 volts, 3000 amps, B3 pulse.
<b>Measured suppressed voltage</b>	170 volts, no failures	170 volts, no failures	170 volts, no failures
<b>Federal Guidelines</b>	Grade A, Class 1, Mode 1 (CID A-A-55818)	Grade A, Class 1, Mode 1 (CID A-A-55818)	Grade A, Class 1, Mode 1 (CID A-A-55818)
<b>EMI/RFI Filter, Normal Mode (50-ohm load)</b>	40 dB @ 100 kHz; 50 dB @ 300 kHz; 50 dB @ 3 MHz; 50 dB @ 30 MHz	40 dB @ 100 kHz; 50 dB @ 300 kHz; 50 dB @ 3 MHz; 50 dB @ 30 MHz	40 dB @ 100 kHz; 50 dB @ 300 kHz; 50 dB @ 3 MHz; 50 dB @ 30 MHz
<b>EMI/RFI Filter, Common Mode (50-ohm load)</b>	18 dB @ 300 kHz; 30 dB @ 1 MHz; 50 dB @ 5 MHz; 50 dB @ 20 MHz	18 dB @ 300 kHz; 30 dB @ 1 MHz; 50 dB @ 5 MHz; 50 dB @ 20 MHz	18 dB @ 300 kHz; 30 dB @ 1 MHz; 50 dB @ 5 MHz; 50 dB @ 20 MHz
<b>Maximum Applied Surge Voltage</b>	6000 volts*	6000 volts*	6000 volts*
<b>Maximum Applied Surge Current</b>	Unlimited, due to current limiting*	Unlimited, due to current limiting*	Unlimited, due to current limiting*
<b>Maximum Applied Surge Energy</b>	Unlimited, due to current limiting*	Unlimited, due to current limiting*	Unlimited, due to current limiting*
<b>Endurance (C62.41-1991 Category B3 pulses)</b>	1 kV>500,000; 3 kV>10,000; 6 kV>1000	1 kV>500,000; 3 kV>10,000; 6 kV>1000	1 kV>500,000; 3 kV>10,000; 6 kV>1000
<b>Undervoltage Shutdown</b>	90 volts (resume at 100 v)	90 volts (resume at 100 v)	N/A
<b>Overvoltage Shutdown</b>	145 volts (resume at 135 v)	145 volts (resume at 135 v)	N/A
<b>Maximum Load Inrush Current During Power-up</b>	1000 Joules	1000 Joules	N/A
<b>Remote Turn-on Applied Voltage Range</b>	5 to 30 volts DC	5 to 30 volts DC	N/A
<b>Remote Turn-on Current Draw:</b>			
<b>Contact Closure</b>	1.5 mA	1.5 mA	N/A
<b>5 V DC Applied Voltage</b>	0.1 mA	0.1 mA	N/A
<b>12 V DC Applied Voltage</b>	1.5 mA	1.5 mA	N/A
<b>24 V DC Applied Voltage</b>	5.0 mA	5.0 mA	N/A
<b>Auxiliary Relay Contact Rating</b>	30 Volts at 1 Amp	30 Volts at 1 Amp	N/A
<b>LED Output</b>	12 volts DC, maximum 20 mA (resistor required)	12 volts DC, maximum 20 mA (resistor required)	N/A
<b>Dimensions</b>	1.75" H x 19" W x 10.5" D (4.5 x 48.3 x 26.7 cm)	1.75" H x 19" W x 10.5" D (4.5 x 48.3 x 26.7 cm)	1.75" H x 19" W x 10.5" D (4.5 x 48.3 x 26.7 cm)
<b>Weight</b>	11 lbs (5 kg)	11 lbs (5 kg)	11 lbs (5 kg)
<b>Temperature Range</b>	5° to 35° C	5° to 35° C	5° to 35° C
<b>Humidity Range</b>	5% to 95% R.H., non-condensing	5% to 95% R.H., non-condensing	5% to 95% R.H., non-condensing
<b>Agency Listings</b>	ETL and cETL certified to (UL 1449; CSA C22.2 No.8-M1986, R2000)	ETL and cETL certified to (UL 1449; CSA C22.2 No.8-M1986, R2000)	ETL and cETL certified to (UL 1449; CSA C22.2 No.8-M1986, R2000)

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

\*\* Specifications subject to change without notice.

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.