

Eaton Power-Suppress 100

Ultra-isolator noise suppressor and isolation provider



Power-Suppress 100

Eaton Power-Suppress™ 100 ultra-isolator noise suppressors protect sensitive equipment from electrical noise disturbances. Using exclusive double shielding techniques, the Power-Suppress 100 blocks all forms of electrical noise including radio frequency interference (RFI)/electromagnetic interference (EMI), over a broad range of frequencies. Furthermore, the noise suppression is achieved without impeding normal power flow.

Power-Suppress 100 ultra-isolator noise suppressors can reduce a 6000-volt spike to an insignificant 0.0030 volt. These high-voltage transients contain enough energy to completely destroy the electrical circuit components that are vital to daily operation. Applications for the Power-Suppress 100 include audio and video equipment, computer and process equipment, telecommunications systems, and virtually any sensitive electronic instruments.

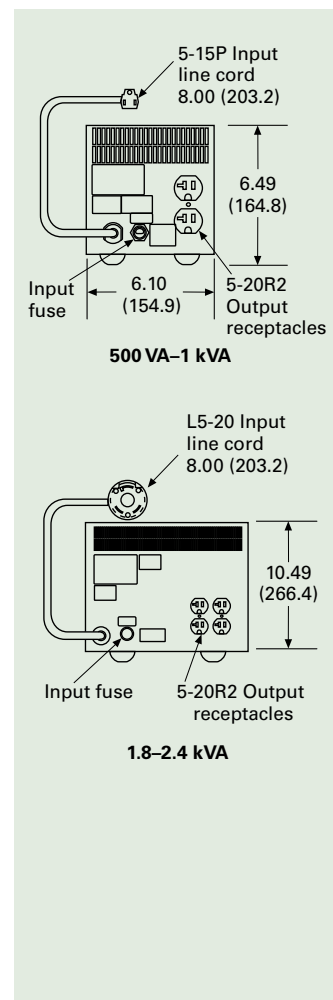


Powering Business Worldwide

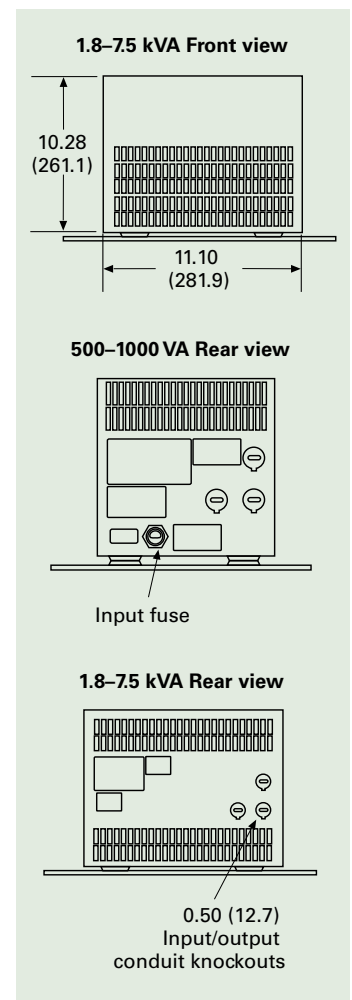
Features

- Traps unwanted harmonics
- Removes surge voltages and minimizes reflected THD
- Cleans and conditions the sine wave
- Eliminates load-generated feedback
- Available in both hardwired or line cord/receptacle models
- Fast and easy installation
- Long-life operation
- Small footprint—saves valuable space
- Meets FCC Category A
- UL® 1012, cUL®, UL 1449
- Two-year warranty complete unit, five-year warranty core and coil

Line-cord style



Terminal style



Technical specifications

Feature	Specifications
Input voltage/frequency	120, 240, 480 V ●/60 Hz
Common-mode noise	140 dB at 100 kHz
Normal-mode noise	65 dB at 100 kHz
Overload capacity	600% for 1 cycle, 300% for 30 seconds
Dielectric strength	2500 Vac minimum
Frequency	60 Hz ±5%
Impedance	3–6% typical
Efficiency	93–97% typical
Input voltage range	±10% of nominal rated voltage
Harmonic distortion	Adds less than 1% THD, under linear loading
Coil insulation	200 °C
Temperature rise	115 °C max. rise above a 40 °C ambient, depending on model
Electromagnetic interference	<0.2 gauss at 36 inches

● 480 V available for 5 and 7.5 kVA models only.

Environments

Feature	Specifications
Audible noise	Less than 50 dBA measured at 3 feet from the noise suppressor
Operating temperature	0 to 40 °C
Storage temperature	–20 to 50 °C
Operating altitude	Up to 12,000 feet (without derating)
Operating humidity	95% relative (noncondensing)

Standards

Feature	Specifications
Safety agency	UL 1012, UL 1449, cUL listed, ANSI/IEEE® C57.12.91 Meets FCC Category A, IEEE C62.41 Category A3
Warranty	Two-year warranty complete unit, five-year warranty core and coil

Plug and receptacle configuration models

Rating	Input plug	Output receptacle
500–1000 VA	5-15P	5-20R duplex
1.8 kVA	L5-20P	2 x 5-20R duplex
2.4 kVA	L5-30P	2 x 5-20R duplex

Power-Suppress 100 models

Input voltages ❶	Output voltages ❶	Output VA ❷	I/O interface (NEMA®)	H x W x D, in (mm)	Weight, lb (kg)	Catalog number
Line-cord/receptacle models						
120	120	500	5-15P/(1) 5-20R2	6.49 x 6.10 x 12.00 (164.8 x 154.9 x 304.8)	22 (10)	T100R-0500
120	120	750	5-15P/(1) 5-20R2	6.49 x 6.10 x 12.00 (164.8 x 154.9 x 304.8)	28 (13)	T100R-0750
120	120	1000	5-15P/(1) 5-20R2	6.49 x 6.10 x 12.00 (164.8 x 154.9 x 304.8)	31 (14)	T100R-1000
120	120	1800	L5-20P/(2) 5-20R2	10.49 x 11.10 x 17.00 (266.4 x 281.9 x 431.8)	54 (24)	T100R-1800
120	120	2400	L5-30P/(2) 5-20R2	10.49 x 11.10 x 17.00 (266.4 x 281.9 x 431.8)	58 (26)	T100R-2400
Terminal style models						
120/240	120/240	500	Hardwired	6.42 x 6.10 x 12.00 (163.1 x 154.9 x 304.8)	22 (10)	T100H-0500
120/240	120/240	750	Hardwired	6.42 x 6.10 x 12.00 (163.1 x 154.9 x 304.8)	28 (13)	T100H-0750
120/240	120/240	1000	Hardwired	6.42 x 6.10 x 12.00 (163.1 x 154.9 x 304.8)	31 (14)	T100H-1000
120/240	120/240	1800	Hardwired	10.28 x 11.10 x 17.00 (261.1 x 281.9 x 431.8)	54 (24)	T100H-1800
120/240	120/240	2500	Hardwired	10.28 x 11.10 x 17.00 (261.1 x 281.9 x 431.8)	58 (26)	T100H-2500
120/240	120/240	5000	Hardwired	10.28 x 11.10 x 17.00 (261.1 x 281.9 x 431.8)	86 (39)	T100H-5000
240/480	120/240	5000	Hardwired	10.28 x 11.10 x 17.00 (261.1 x 281.9 x 431.8)	92 (42)	T100H-5001 ❸
120/240	120/240	7500	Hardwired	10.28 x 11.10 x 17.00 (261.1 x 281.9 x 431.8)	116 (53)	T100H-7500
240/480	120/240	7500	Hardwired	10.28 x 11.10 x 17.00 (261.1 x 281.9 x 431.8)	111 (50)	T100H-7501 ❸

❶ Input and output voltages can be field configured for either 120 Vac or 240 Vac, 240 Vac or 480 Vac, as indicated above.

❷ 500 VA to 7500 VA hardwired models will ship configured to 120 V input and output voltage.

❸ Models T100H-5001 and T100H-7501 will ship configured to 240 V input and output voltage.

Catalog number configuration

