

Eaton Power-Suppress 100

Ultra-isolator noise suppressor and isolation provider



Power-Suppress 100

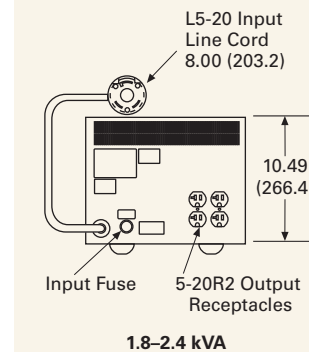
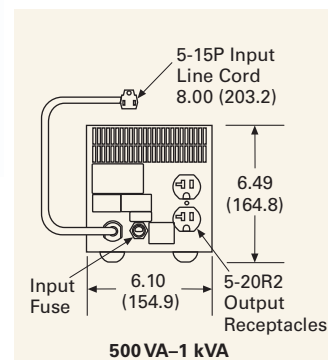
Eaton® Power-Suppress™ 100 Ultra-Isolator Noise Suppressors protect sensitive equipment from electrical noise disturbances. Using exclusive double shielding techniques, the Power-Suppress 100 blocks all forms of electrical noise including radio frequency interface (RFI)/electromagnetic interference (EMI), 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 6,000-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.

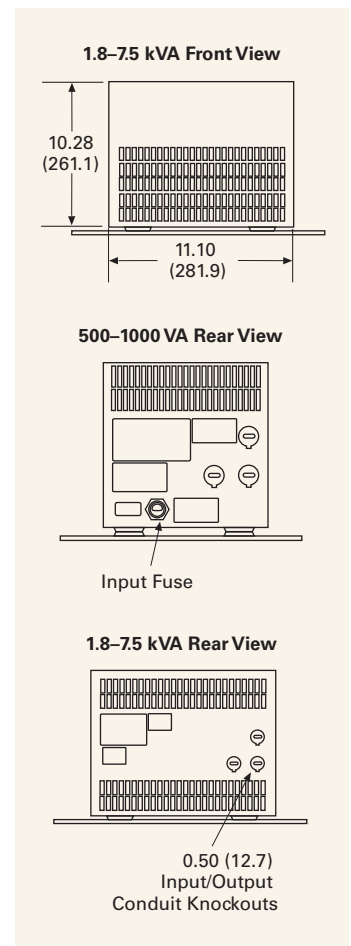
Features

- 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



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Technical specifications

Feature	Specifications
Input voltage/frequency	120, 240, 480V ^① /60 Hz
Common-mode noise	140 dB @ 100 kHz
Normal-mode noise	65 dB @ 100 kHz
Overload capacity	600% for 1 cycle, 300% for 30 seconds
Dielectric strength	2,500 Vac minimum
Frequency	60 Hz ±5%
Impedance	3–6% typical
Efficiency	93–97% typical
Input voltage range	±10% of nominal rated voltage
Load regulation	2–5% or less from no load to full load at unity power factor
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 @ 36 inches

^① 480V 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	0–40°C
Storage temperature	-20–50°C
Operating altitude	Up to 12,000 feet (without derating)
Operating humidity	95% relative (non-condensing)

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

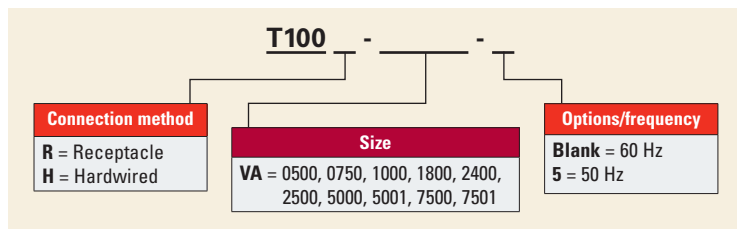
Catalog number	Input voltages ^②	Output voltages ^②	Output VA ^③	I/O Interface (NEMA®)	H x W x D, in. (mm)	Weight, lbs (kg)
Line-cord/receptacle models						
T100R-0500	120	120	500	5-15P/(1) 5-20R2	6.49 x 6.10 x 12.00 (164.8 x 154.9 x 304.8)	22 (10)
T100R-0750	120	120	750	5-15P/(1) 5-20R2	6.49 x 6.10 x 12.00 (164.8 x 154.9 x 304.8)	28 (13)
T100R-1000	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-1800	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-2400	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)
Terminal style models						
T100H-0500	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-0750	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-1000	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-1800	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-2500	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-5000	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-5001 ^④	240/480	120/240	5000	Hardwired	10.49 x 11.10 x 17.00 (266.4 x 281.9 x 431.8)	92 (42)
T100H-7500	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-7501 ^④	240/480	120/240	7500	Hardwired	10.28 x 11.10 x 17.00 (261.1 x 281.9 x 431.8)	111 (50)

^② Input and output voltages can be field configured for either 120 Vac or 240 Vac, 240 Vac or 480 Vac, as indicated above.

^③ 500 VA to 7500 VA hardwired models will ship configured to 120V input and output voltage.

^④ Models T100H-5001 and T100H-7501 will ship configured to 240V input and output voltage.

Catalog number configuration



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