

Topaz 100 125 VA to 7.5 kVA

*Ultra-Isolator Noise Suppressor
and isolation provider*

Advanced Features

- ▶ Traps unwanted harmonics
- ▶ Removes surge voltages and minimizes reflected THD
- ▶ 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
- ▶ 2 years, 5 years warranty core & coil



Noise signals affect electrical equipment approximately seven times more frequently than voltage fluctuations and blackouts combined, so it is essential to safeguard your equipment with Ultra-Isolator Noise Suppressors from MGE.

Topaz 100 Ultra-Isolator Noise Suppressors protect sensitive equipment against electrical noise disturbances. Using exclusive double shielding techniques, the **Topaz 100** blocks all forms of electrical noise including RFI/ EMI, over a broad range of frequencies. Furthermore, the noise suppression is achieved without impeding the normal AC signal.

Topaz 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 **Topaz 100** include audio and video equipment, computer and process equipment, telecommunications systems, and virtually any sensitive electronic instruments.

Characteristics

Topaz 100

Input voltage/Frequency	120, 240, 480V*/60 Hz
Common-mode noise	140dB @ 100kHz
Normal-mode noise	65dB @ 100kHz
Overload capacity	600% for 1 cycle 300% for 30 seconds
Dielectric strength	2,500 VAC minimum
Frequency	60 Hz ±5%
Impedance	2 – 5% 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
Electro-magnetic interference	<0.2 gauss @ 36 inches

Environments

Audible noise	Less than 50dB measured at 3 feet from the noise suppressor
Operating temperature	0°C to 40°C
Storage temperature	-20°C to 50°C
Operating altitude	Up to 12,000 feet with derating
Operating humidity	95% relative (non-condensing)

Standards

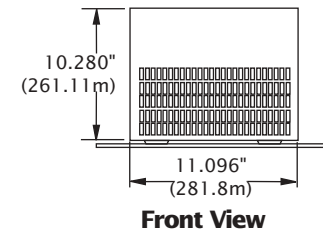
Safety Agency	UL 1012, UL 1449, cUL listed, ANSI/IEEE C57.12.91 Meets FCC Category A, IEEE C62.41 Category A3
Warranty	2 years, 5 years for core and coil

Plug & Receptacles Configuration Models

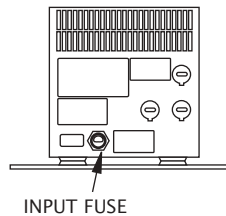
Rating	Input plug	Output receptacle
1.25VA - 1kVA	5 - 15P	5-20R duplex
1.8kVA	L5 - 20P	2 x 5-20R duplex
2.4 kVA	L5 - 30P	2 x 5-20R duplex

* 480V available for 5 and 7.5 kVA models only

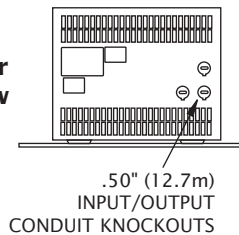
Terminal Style



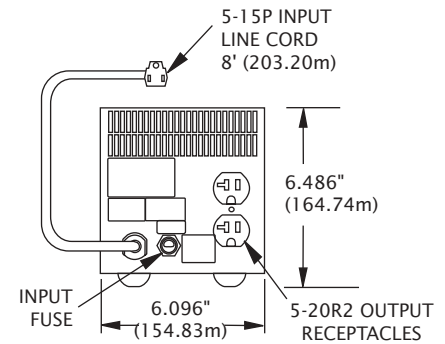
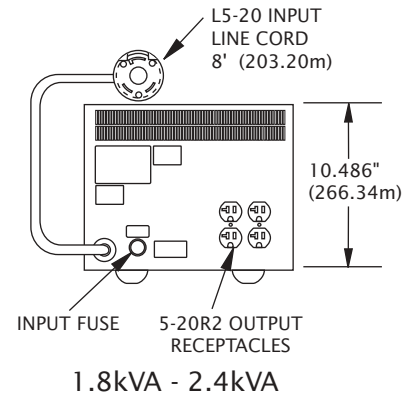
1.25VA-1.0 kVA



1.8 kVA- 7.5 kVA



Line-Cord Style



Topaz 100 Cabinet Standard Dimensions and Weights with Plugs and Receptacles

MGE Model No.	INPUT-OUTPUT Voltages	OUTPUT VA	I/O Interface (NEMA)	W x D x H Inches	Weight lbs
Line-cord/receptacle models					
T100R-0125	120 - 120	125	5-15P / (1) 5-20R2	6.096 x 12.0 x 6.486	16
T100R-0250	120 - 120	250	5-15P / (1) 5-20R2	6.096 x 12.0 x 6.486	16
T100R-0500	120 - 120	500	5-15P / (1) 5-20R2	6.096 x 12.0 x 6.486	22
T100R-0750	120 - 120	750	5-15P / (1) 5-20R2	6.096 x 12.0 x 6.486	28
T100R-1000	120 - 120	1000	5-15P / (1) 5-20R2	6.096 x 12.0 x 6.486	31
T100R-1800	120 - 120	1800	L5-20P / (2) 5-20R2	11.096 x 17.0 x 10.486	54
T100R-2400	120 - 120	2400	L5-30P / (2) 5-20R2	11.096 x 17.0 x 10.486	58
Terminal style models					
T100H-0125	120 / 240 - 120 / 240	125	Hardwired	6.096 x 12.0 x 6.421	16
T100H-0250	120 / 240 - 120 / 240	250	Hardwired	6.096 x 12.0 x 6.421	16
T100H-0500	120 / 240 - 120 / 240	500	Hardwired	6.096 x 12.0 x 6.421	22
T100H-0750	120 / 240 - 120 / 240	750	Hardwired	6.096 x 12.0 x 6.421	28
T100H-1000	120 / 240 - 120 / 240	1000	Hardwired	6.096 x 12.0 x 6.421	31
T100H-1800	120 / 240 - 120 / 240	1800	Hardwired	11.096 x 17.0 x 10.280	54
T100H-2500	120 / 240 - 120 / 240	2500	Hardwired	11.096 x 17.0 x 10.280	58
T100H-5000	120 / 240 - 120 / 240	5000	Hardwired	11.096 x 17.0 x 10.280	86
T100H-5001	240 / 480 - 120 / 240	5000	Hardwired	11.096 x 17.0 x 10.486	92
T100H-7500	120 / 240 - 120 / 240	7500	Hardwired	11.096 x 17.0 x 10.280	116
T100H-7501	240 / 480 - 120 / 240	7500	Hardwired	11.096 x 17.0 x 10.280	111

Note: Input and output voltages can be configured for either 120VAC or 240VAC, 240VAC or 480VAC, as indicated above.



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