

## ADVANCED FEATURES

- ▶ **Common-mode noise reduction characteristic of 146 dB**
- ▶ **Normal-mode noise reduction (65 dB)**
- ▶ **Complies with IEEE 587- A and B IEEE C62-41**
- ▶ **Exclusive shielding**
- ▶ **High efficiency**
- ▶ **Fast, easy installation**
- ▶ **UL 1012, cUL, UL 544 (medical), CE**
- ▶ **6 year warranty**

## Ultra-Isolator Noise Suppressors 125VA to 7.5kVA Single Phase



**Ultra-Isolator® Noise Suppressors** protect sensitive electronic equipment against electrical noise disturbances. These impediments, from sources such as lightning, utility network switching and the operation of electric motors, are the most prevalent and troublesome of all AC power disturbances. Noise signals that can affect electronic equipment occur approximately seven times more often than voltage fluctuations and blackouts combined. So it makes sense to give sensitive equipment the best protection available: an Ultra-Isolator® Noise Suppressor.

**Ultra-Isolator® Noise Suppressors** employ exclusive shielding technique that enables them to block all forms of electrical noise including RFI/EMI, over a broad range of frequencies, without impeding the normal AC signal.

These products can reduce a 6,000 volt spike to an insignificant 0.0030 volt. These high-voltage transients described in IEEE 587 A and B, contain enough energy to completely destroy electronic circuit components.

### **Applications for noise protection includes:**

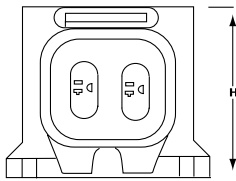
- ▶ Computer equipment
- ▶ Telecommunication systems
- ▶ Process control equipment

### **Applications for reduction of leakage current and isolation includes:**

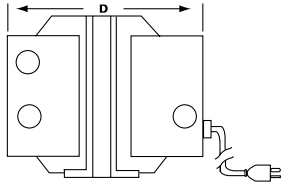
- ▶ Medical lab equipment
- ▶ Production line test equipment
- ▶ Research and development lab test equipment

**M G E**  
UPS SYSTEMS

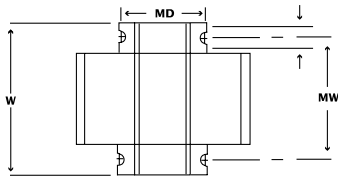
**Line Cord Style**



**Front view**

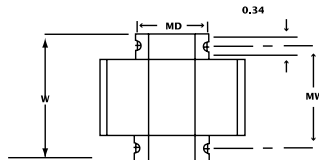
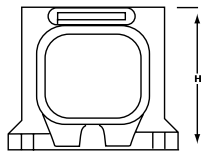


**Side view**



**Top View**

**Terminal style**



**Characteristics**

**T1**

<b>Electrical</b>	
Input voltage	120, 240, 480V
Common-mode noise	146dB @ 100kHz
Normal-mode noise	65dB @ 100kHz
Overload capacity	600% for 1 cycle 300% for 30 seconds
Dielectric strength	2,500 VAC minimum
Frequency	47 - 400Hz for 50/60Hz model / 57 - 400Hz for 60Hz model
Impedance	3 - 5% typical
Efficiency	95% typical
Input voltage range	±10% of nominal rated voltage
Load regulation	±3.5% or less from no load to full load at unity power factor
Insulation resistance	100 megohms minimum from windings to core @ 50vdc
Electro-magnetic interference	<0.1 gauss @ 18 inches

**Environments**

Audible noise	Less than 50dB measured at 3 feet from the noise suppressor
Operating temperature	0°C to 50°C
Storage temperature	-40°C to 85°C
Operating altitude	12,000 feet with derating
Operating humidity	95% relative (non-condensing)

**Standards**

Safety Agency	UL 1012, UL 544, cUL listed, CE (for 50Hz) Meets FCC Category A
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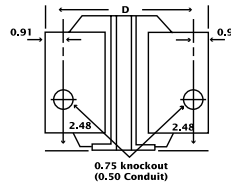
**Warranty**

Warranty	6 years
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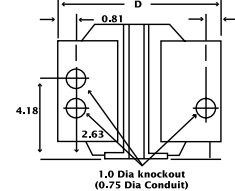
**Plug & Receptacles Configuration Models**

Rating	Input plug	Output receptacle
125VA - 1kVA	5 - 15P	5-15R duplex
1.8kVA	L5 - 20P	5-20R duplex
2.4 kVA	L5 - 30P	5-20R duplex

**125VA - 750VA**



**1kVA - 7.5kVA**



**Topaz T1 product family**

Power Rating	Input Voltage	Output Voltage	Frequency (in)	Height (in)	Width (in)	Depth (in)	Mounting Width (in)	Mounting Depth (in)	Weight (pounds)	BTU/hour	Series 30 (146dB)
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*Line-cord/receptacle models*

125 VA	120 VAC	120 VAC	60Hz	4.8	7.4	7.6	6.3	2.9	17	32	91091-32T
250 VA	120 VAC	120 VAC	60Hz	4.8	7.4	8.0	6.3	3.3	17	64	91092-32T
500 VA	120 VAC	120 VAC	60Hz	4.8	7.4	9.0	6.3	4.2	25	90	91095-32T
750 VA	120 VAC	120 VAC	60Hz	4.8	7.4	9.7	6.3	4.9	27	135	91097-32T
1kVA	120 VAC	120 VAC	60Hz	6.6	8.4	9.7	7.3	3.5	40	297	91001-32T
1.8kVA	120 VAC	120 VAC	60Hz	6.6	8.4	10.5	7.3	4.3	52	392	91018-32T
2.4kVA	120 VAC	120 VAC	60Hz	6.6	8.4	10.9	7.3	4.6	60	341	91002-32T

*Terminal style models*

125 VA	120/240	120/240	50/60Hz	4.8	7.4	7.9	6.3	3.1	14	32	91091-31T
250 VA	120/240	120/240	50/60Hz	4.8	7.4	8.3	6.3	3.5	16	64	91092-31T
500 VA	120/240	120/240	50/60Hz	4.8	7.4	9.4	6.3	4.6	25	90	91095-31T
750 VA	120/240	120/240	50/60Hz	4.8	7.4	10.2	6.3	5.5	27	135	91097-31T
1kVA	120/240	120/240	50/60Hz	6.6	8.4	10.0	7.3	3.8	37	180	91001-31T
1.8kVA	120/240	120/240	50/60Hz	6.6	8.4	11.0	7.3	4.8	50	323	91018-31T
2.5kVA	120/240	120/240	50/60Hz	6.6	8.4	11.8	7.3	5.5	58	449	91002-31T
5kVA	120/240	120/240	50/60Hz	8.4	8.4	15.0	7.3	8.8	107	898	91005-31T
5kVA	240/480	120/240	50/60Hz	8.4	8.4	15.0	7.3	8.8	104	898	91105-31T
7.5kVA	120/240	120/240	50/60Hz	8.4	8.4	17.5	7.3	8.8	135	1347	91007-31T
7.5kVA	240/480	120/240	50/60Hz	8.4	8.4	18.0	7.3	11.8	141	1347	91107-31T

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