Transient Voltage Surge Suppressors By:

ST-L###-P-1L

Series Wired AC Unit with Discrete All-Mode Protection

SineTamer
Energy Control Systems

Made in the USA

"Our Name Says It All"

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The ST-L###-P-1L is designed as a high quality, moderately priced residential suppressor to protect the ever increasing inclusion of sensitive electronics currently being found in today's residential housing market. These models are extremely effective in limiting transients generated at the main. All models are rated with a robust 60 kA per phase peak surge current rating.

These devices are compact in size which makes installation a breeze and the warranty is the best in the industry. Our customers testify that we offer the most versatile TVSS devices on the market with superior performance specs and a warranty that is second to none.

GENERAL

Description:	Parallel connected transient voltage surge suppressor with encapsulated **O**ptimal **R**esponse **N**etwork™ circuitry (20 kA per mode / 60 kA total peak surge current).
Application:	Designed for use at ANSI/IEEE Categories A, B, and C with susceptibility up to all exposure levels to protect sensitive/critical loads fed by a single electrical circuit.
Warranty:	**10 Year Unlimited Free Replacement**

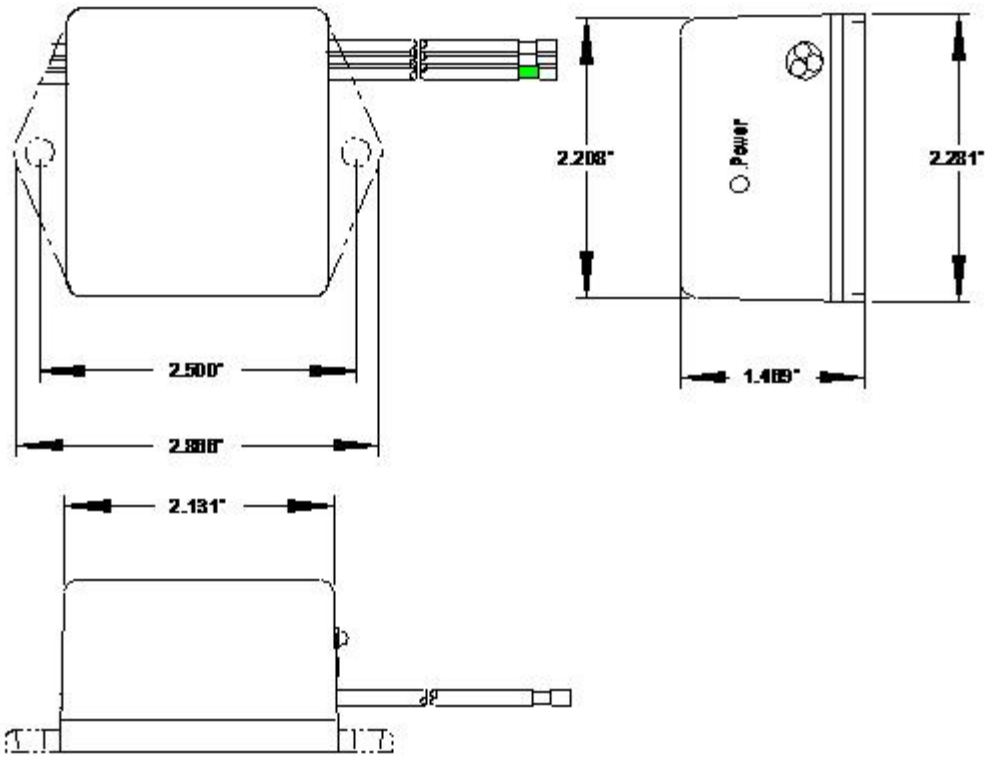
MECHANICAL

Enclosure:	Plastic, UL 94V-5VA
Mounting:	External mounting feet.
Connection Method:	18 AWG Wire connections (Black, White, Green)
Shipping Weight:	**<** 2 lbs

ELECTRICAL

Circuit Design:	Parallel connected hybrid design incorporating discrete all mode protection and utilizing our encapsulated **O**ptimal **R**esponse **N**etwork™. All suppression circuits are encapsulated in our high dielectric compound to promote long component life and protection from the environment and /or vibration. All circuits include Component Level Thermal Fusing.
Protection Modes:	Dedicated protection circuitry for every possible mode. Discrete L-N (Normal Mode), and Discrete L-G, N-G (Common Mode)
Input Power Frequency:	50-60 Hz
Voltage Configurations:	120, 240, 277
Peak Surge Current:	20 kA per mode / 60 kA total PSC
Circuit Diagnostics:	Green LED, normally on.

We are the premier customer service oriented company in the industry as demonstrated by being awarded the 2006 TVSS Customer Value Enhancement Award from Frost & Sullivan. Our manufacturing facility is also one of the few in the industry to be ISO-9001 certified by National Quality Assurance USA.



LET-THROUGH VOLTAGE PERFORMANCE AND ELECTRICAL SPECIFICATIONS				
Model	**MCOV**	**Mode**	**ANSI/IEEE C62.41.1 & .2-2002 and C62.45-2002 Let-through Voltage Test Results**	
			Cat A 30 Ω 100 kHz Ring Wave 6 kV 200 A @ 90° Phase Angle	**Cat B, 2 Ω Impulse Wave 6 kV / 3 kA @ 90° Phase Angle**
ST-L120-P-1L	150	P-N	210 (D)	316 (D)
	150	P-G	290 (D)	429 (D)
	150	N-G	430 (S)	498 (S)
ST-L240-P-1L	320	P-N	398 (S)	548 (S)
	320	P-G	425 (S)	558 (S)
	320	N-G	430 (S)	655 (S)
Let-Through Voltage Test Environment: All tests are dynamic (D) except for those marked (S) which are static. All voltages are peak (±10%). Tests performed at 270 degrees are measured from the insertion point to the peak of the surge. Tests performed at 90 degrees are measured from the peak of the AC sine wave to the peak of the surge. All tests were performed with the device connected in series simulating actual installation. Time base=10 μs.				

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Because we are constantly seeking to improve our products, specifications are subject to change at any time.

Actual unit may vary from picture.