Transient Voltage Surge Suppressors By:

ST-SPT Series

Series Wired AC Unit with Sine Wave Tracking and Discrete All-Mode Protection

SineTamer

Made in the USA

"Power Quality is our Only Business"

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The SineTamer© ST-SPT devices provide the best ring wave transient protection available for a device of its type. These devices are intended for single 120 or 240 VAC circuit applications at locations feeding sensitive/critical equipment. It is extremely effective in limiting transients generated inside the facility and is an absolute must on circuits feeding critical microprocessor based equipment. It boasts a robust 40kA per phase peak surge current rating on the 15 amp models and 80kA per phase on the 30 amp models.

This economical device is unique in that it is designed as a stand-alone surge suppression device and requires no special enclosure when used outside an existing enclosure or cabinet. Its compact size makes installation a breeze and the warranty is the best in the industry. Add to all that, dedicated "all mode" **E**nhanced **S**inewave **T**racking™ and completely encapsulated **O**ptimal **R**esponse **N**etwork™, and you get a device that defines effective and reliable surge suppression.

We believe that we offer the most versatile TVSS devices on the market with performance specs that are superior to our competitors and a warranty that is second to none.

GENERAL

Description:	Series wired parallel-connected transient voltage surge suppressor with encapsulated **O**ptimal **R**esponse **N**etwork™ and **E**nhanced **S**inewave **T**racking circuitry
Application:	Designed for use at ANSI/IEEE Category A with susceptibility up to medium exposure levels to protect sensitive/critical loads fed by a single 120 or 240VAC circuit.
Warranty:	**25 Years Unlimited Free Replacement**
Unit Listings:	Tested to UL 1449 2nd Edition, IEC 61643-1 (Class 2 & 3); ISO 9001:2000 (Surge Suppression Incorporated)

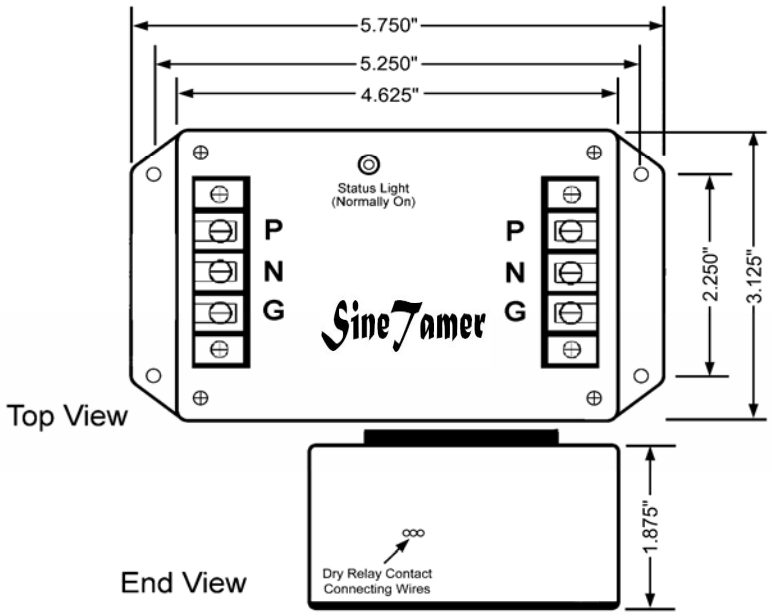
MECHANICAL

Enclosure:	Plastic, UL 94V
Mounting:	External mounting feet and optional DIN rail mount
Connection Method:	3-Lug screw terminal strip at both the input and output sides of the device.
Shipping Weight:	≈ 2 lbs

ELECTRICAL

Circuit Design:	Series wired, parallel connected hybrid design incorporating discrete all mode protection and utilizing our encapsulated **O**ptimal **R**esponse **N**etwork™ and **E**nhanced **S**inewave **T**racking circuitry design to provide lowest possible let-through-voltages. All suppression circuits are completely encapsulated in our exclusive compound to assure long component life and complete protection from the environment and/or vibration.
Protection Modes:	Dedicated protection components and circuitry for each mode. Discrete L-N (Normal Mode), and Discrete L-G, N-G (Common Mode)
Input Power Frequency:	50-60Hz
Maximum Continuous Operating Current:	15 and 30 Amps AC (60 Amp models available)
Response Time:	<1 nanosecond
Circuit Diagnostics:	Super Bright LED, normally on.
Circuit Interrupt:	External (see installation instructions for details).
DIN option:	Standard DIN rail mounting kit – pre installed along 5.75" edge. Use -DIN adder for option.

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



MEASURED LIMITING VOLTAGE PERFORMANCE AND ELECTRICAL SPECIFICATIONS					
Model	MCOV	Mode	ANSI/IEEE C62.41 & C62.45 Let-Through Voltage Test Results		
			A1 2kV, 67A 100KHz Ring Wave 180º Phase Angle	A3 6kV, 200A 100KHz Ring Wave 90º Phase Angle	B3/C1 6kV, 3kA Impulse Wave 90º Phase Angle
ST-SPT120-15	150 L-N 150 L-G 150 N-G	L-N L-G N-G	28V (D) 62V (D) 41V (S)	94V (D) 190V (D) 94V (S)	281V (D) 360V (D) 550V (S)
ST-SPT120-30	150 L-N 150 L-G 150 N-G	L-N L-G N-G	22V (D) 50V (D) 34V (S)	55V (D) 160V (D) 94V (S)	289V (D) 380V (D) 550V (S)
ST-SPT240-15	300 L-N 300 L-G 300 N-G	L-N L-G N-G	38V (D) 70V (D) 51V (S)	121V (D) 220V (D) 121V (S)	610V (D) 605V (D) 605V (S)
ST-SPT240-30	300 L-N 300 L-G 300 N-G	L-N L-G N-G	38V (D) 70V (D) 51V (S)	121V (D) 220V (D) 121V (S)	610V (D) 605V (D) 605V (S)

***Measured Limiting Voltage (Let-Through) Test Environment:** Dynamic (D) or Static (S), positive polarity. All voltages are peak (±10%). Time Base is 1ms. 180° phase angle voltages are measured form the zero crossing, 90° phase angle voltages are measured from the positive peak of the sine wave to the positive peak of the surge indicating actual excess voltage let through. All tests were performed with the device connected in series simulating actual installation.

****Suppressed Voltage Test Environment** using test parameters as defined by Underwriters Laboratory: Dynamic (D) or Static (S), Positive Polarity. Time base=10μs. All voltages are peak (±10%), 90° phase angle voltages are measured from the zero crossing to the peak of the surge. All SineTamer products are manufactured exclusively for Surge Suppression Incorporated.

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