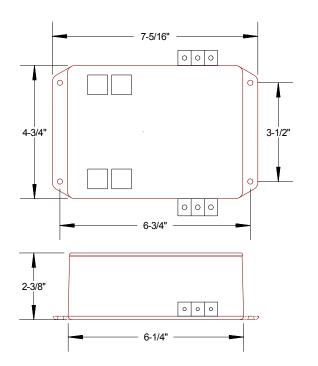


The SineTamer[®] ST-SPT devices provide the best ring wave transient protection available for a device of its type. These devices are intended for single 120 VAC circuit applications at locations feeding sensitive/critical equipment. It is extremely effective in limiting transients generated inside the facility and is an absolute must on circuits feeding critical microprocessor based equipment. It boasts a robust 20kA per mode peak surge current rating on the 15 amp models and 40kA per mode 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" Enhanced Sinewave Tracking[™] and completely encapsulated Optimal Response Network[™], 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	1
Description:	Series wired parallel-connected transient voltage surge suppressor with encapsulated Optimal Response Network™ and Enhanced Sinewave Tracking circuitry (20kA per mode peak surge current.)
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 120VAC circuit.
Warranty:	25 Years Unlimited Free Replacement
Unit Listings:	Tested to UL 1449 Second Edition and CUL
MECHANICAL	
Enclosure:	Plastic, UL 94V
Mounting:	External mounting feet.
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 Optimal Response Network [™] and Enhanced Sinewave Tracking 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
Response Time:	<1 nanosecond
Circuit Diagnostics:	Super Bright LED, normally on.
Circuit Interrupt:	External (see installation instructions for details).
Telephone Line	RJ14 – two telephone line - Standard 3002/C2 unconditioned voice grade lines, fax lines,
Protection:	modem lines and ISDN lines to protect data transmission system equipment from damaging transients generated outside of the facility.



Actual unit may vary from picture.

				SI/IEEE C62.41 & C62 rough Voltage Test R	
Model	MCOV	Mode	A1	A3	B3/C1
WOGE		Mode	2kV, 67A	6kV, 200A	6kV, 3kA
			100KHz Ring Wave	100KHz Ring Wave	Impulse Wave
			180° Phase Angle	90° Phase Angle	90° Phase Ang
	150 L-N	L-N	18V (D)	94V (D)	316V (D)
ST-SPT120-15-RJ14	150 L-G	L-G	50V (D)	190V (D)	429V (D)
	150 N-G	N-G	33V (S)	94V (S)	498V (S)
	300 L-N	L-N	18V (S)	121V (S)	548V (S)
ST-SPT240-x-RJ14 (15 - 30)	300 L-G	L-G	50V (S)	220V (S)	558V (S)
(15 - 30)	300 N-G	N-G	33V (S)	121V (S)	655V (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%), 90E phase angle voltages are measured from the zero crossing to the peak of the surge. All SineTamer products are manufactured exclusively for Energy Control Systems by Surge Suppression Incorporated.

	RJ14 SI/IEEE C62.41-1991 hrough Voltage Tests	Let-through Voltage test Environment using ANSI/IEEE C62.41-1991, C62.45-1992; Static,
Test Mode L-L	Test Category B3/C1 Impulse Wave 6,000V 3,000A 350	Positive Polarity All voltages are peak (±10%), Time base = 1ms
L-L L-G	350	
PERF	ORMANCE	
Operat	um Continuous ting Voltage: um Continuous	130Vrms
Operat	ting Current:	360ma
	Surge Current per Pair:	20,000 amps per pair <1 nanosecond

Because we are constantly seeking to improve our products, specifications are subject to change at any time. © 2009 ECS International Inc. Specification Last Changed 04/09