Dedicated Protection Components And Sine Wave Tracking Circuitry For Each Mode





P.O. Box 330607 Ft. Worth, TX 76163 Phone: 817.483.8497 Fax: 817.572.2242 www.sinetamer.com

"Power Quality is Our Only Business"

The SineTamer® LA series of units blends outstanding high-energy "impulse" suppression with unsurpassed "ringwave" transient protection utilizing our Frequency Attenuation Network®. This durable device is intended for general purpose and sensitive/critical load applications. Compact size and non-metallic enclosure design also allow it to be installed directly inside electrical panels and individual equipment disconnects. The LA-ST60 is extremely effective in limiting internally generated transients and is an absolute must on panels feeding office locations and/or microprocessor based equipment.

This economical device has features that are not available in devices costing many times its price. Its compact size makes installation a breeze. **Maintenance Free** operation and **20 Year Unlimited Free Replacement Warranty** provide peace of mind.

Standard unit is Type 2 10kA UL Nominal Discharge Current; Optional Type 2 20kA I_N is available, Insert "B" after LA-ST.

GENERAL

Description: Parallel connected, transient voltage surge suppressor device utilizing both high-energy

handling and Frequency Attenuation Network® circuitry for virtual elimination of ring wave

type transients. Unit has a 20ka per mode/60ka per phase rating.

Application: Designed for use at ANSI/IEEE Categories C, B and A with susceptibility up to medium

exposure levels. Designed to protect sensitive/critical loads fed from distribution panels,

branch panels and/or individual equipment panels.

Warranty: 20 Years Unlimited Free Replacement

Product Qualifications: ANSI/UL 1449 Fourth Edition by CSA (MC# 259700) & UL – (ML#: E363345); UL1283*

and CE Compliant (*Type 2 SPDs only) ISO 9001:2000, ANSI C62.72-2007, IEC 61643-1

Class 2&3

MECHANICAL

Enclosure: High strength ABS Plastic, NEMA 1 rated enclosure.

Mounting: 3/4" conduit fitting (internally threaded) and external mounting feet.

Connection Method: #10 stranded wire. **Shipping Weight:** \approx 6lbs / 2.7kgs

ELECTRICAL

Circuit Design: Parallel connected, internally fused, hybrid design incorporating discrete all mode protection

(10 modes for 3 phase wye units*) and utilizing our encapsulated design to provide improved durability. All suppression circuits are 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, L-L (Normal

Mode), and Discrete L-G, N-G (Common Mode). 10 modes / 3 phase wye system.

Input Power Frequency: 50- 60Hz typical

EMI/RFI Noise Attenuation: 30dB Max. from 1kHz to 10MHz

Circuit Diagnostics: Super Bright LED, 1 per phase, normally on.

Circuit Interrupt: External and internal (see installation instructions for details).

Fusing: Component Level Thermal and Board Level Current Fusing kAIC Rating: 200 kAIC when installed according to installation instructions

Options: -V Remove Frequency Attenuation; -S Surge Counter; -C Dry Relay Contacts, Other

options available. Call!





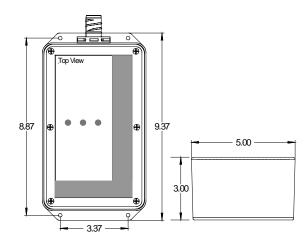












MEASURED LIMITING VOLTAGE PERFORMANCE AND ELECTRICAL SPECIFICATIONS							
Model	Circuit Type	MCOV	Peak Surge Current (Amps) Per Mode	Mode	ANSI/IEEE C62.41 & C62.45 Let-Through Voltage Test Results		
					A1 2kV, 67A 100KHz Ring Wave 270° Phase Angle	Cat B3/C1 (6 kV, 3 kA) 90° Phase Angle	C3 20kV, 10kA Impulse Wave 90° Phase Angle
LA-ST601P1	120V, Single Ø (2 wire + ground)	150 L-N 150 L-G 150 N-G	20,000 L-N 20,000 L-G 20,000 N-G 60,000 Total	L-N L-G N-G	35 60 55	377 380 541	914 1025 1176
LA-ST601S1	120/240V, Split Ø (3 wire + ground)	300 L-L 150 L-N 150 L-G 150 N-G	20,000 L-L 20,000 L-N 20,000 L-G 20,000 N-G 120,000 Total	L-L L-N L-G N-G	75 35 60 55	576 377 380 541	1119 914 1025 1176
LA-ST603Y1	120/208V, 3ØY (4 wire + ground)	300 L-L 150 L-N 150 L-G 150 N-G	20,000 L-L 20,000 L-N 20,000 L-G 20,000 N-G 200,000 Total	L-L L-N L-G N-G	55 35 60 55	576 377 380 541	1119 914 1025 1176
LA-ST601P2	240V, Single Ø (2 wire + ground)	320 L-N 320 L-G 320 N-G	20,000 L-N 20,000 L-G 20,000 N-G 60,000 Total	L-N L-G N-G	60 80 55	560 588 941	1050 1262 1575
LA-ST603Y2	220/380V, 3ØY 277/480V, 3ØY (4 wire + ground)	550 L-L 320 L-N 320 L-G 320 N-G	20,000 L-L 20,000 L-N 20,000 L-G 20,000 N-G 200,000 Total	L-L L-N L-G N-G	130 60 80 55	805 560 588 941	1344 1050 1262 1575
LA-ST603N2	240V, 3∅∆ (3 wire + ground)	320 L-L 320 L-G	20,000 L-L 20,000 L-G 120,000 Total	L-L L-G	96	576 497	1262 1262
LA-ST603N4	380V, 3∅∆ 480V, 3∅∆ (3 wire + ground)	550 L-L 550 L-G	20,000 L-L 20,000 L-G 120,000 Total	L-L L-G	140	792 792	1344 1344

Let-Through Voltage Test Environment: Positive Polarity. Time base=1ms. All voltages are peak (±10%). Surge voltages are measured from the insertion point of surge on the sine wave to the peak of the surge. All tests are Dynamic (voltage applied) except N-G which is static (no voltage applied). All tests were performed with 6 inches of lead length outside the device enclosure which is simulates actual "as installed" performance.

[.] Single-pulse, surge current capacities of 200,000 amps or less are determined by single-unit testing of all components within each mode. Present industry test equipment limitations require testing of individual components or sub-assemblies within a mode for single-pulse, surge current capacities over 200,000 amps.