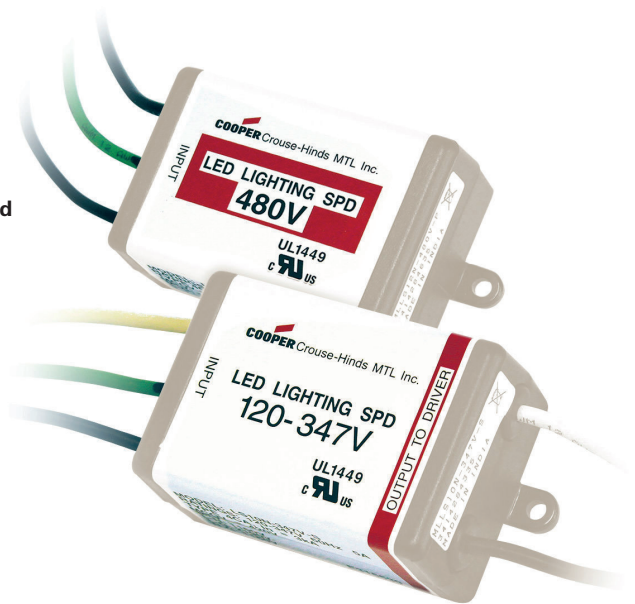




MTL LS Series Surge and Transient Protection for LED Lighting Systems

- Protects LED lighting systems and drivers
- Space-saving footprint for mounting in confined locations
- Models to protect 120V-347V and 480V
- High performance to size ratio
- Fully automatic operation
- Models for both series and parallel connection
- UL1449 3rd Edition Type 4CA Recognized Component
- Rated for harsh environments
- 10 year product warranty



The LS Series of surge protection devices are versatile high performance surge protection devices which can be used within a wide variety of equipment in industrial and commercial applications. The circuitry will protect equipment from damaging electrical transients and disturbances.

The space-saving footprint allows the LS Series to be mounted in confined locations whilst providing protection the Line/Neutral, Line/Ground, and Neutral/Ground modes.

A high level of performance to size ratio is achieved by utilizing Metal Oxide Varistor (MOV) technology alongside high energy gas discharge tube (GDT) technology together with a state-of-the-art failure disconnect network giving added peace of mind.

Fully automatic in operation, the LS Series reacts immediately, clamping voltage surges without causing undue leakage losses under normal operation. No operator intervention is required, the LS Series reset automatically and are maintenance free.

Parallel and Series versions available. The LS10N-xxxx-S2 models are series connected devices which automatically disconnect power to the load under fault conditions. The LS12N-xxxx-P2 are parallel connected devices which disconnect themselves from the load under fault conditions leaving power to the load.

Meeting and exceeding the requirements of ANSI/IEEE C62.45 and ANSI/IEEE C62.41 the LS Series is also a UL1449 3rd Edition Recognized Component. With ingress protection to IP66 (NEMA 4X), the LS Series can be installed in most locations and carries an unrivalled "no fuss" 10 year manufacturers warranty.

Crouse-Hinds
by **EATON**

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MTL LS Series

April 2015

SPECIFICATION

Maximum surge current

Series connected units: 10kA (8/20µs)
 Parallel connected units: 12kA (8/20µs)

Leakage current

<0.3mA

Maximum continuous operating current

5A series connected units
 Unlimited Amps parallel connected units

Working voltage

LS10N-347V-S2 120-347VAC, 47-63Hz
 LS10N-480V-S2 480VAC, 47-63Hz
 LS12N-347V-P2 120-347VAC, 47-63Hz
 LS12N-480V-P2 480VAC, 47-63Hz

Ambient temperature limits

-40°C to +85°C (operating)
 -104°F to +185°F (operating)
 -40°C to +110°C (storage)
 -104°F to +230°F (storage)

Casing

High Temperature ABS/PC UL94-5V

Weight

284 grams (10 oz.)

Dimensions

See Figures 1 & 2

Ingress protection

IP66 (NEMA 4X)

Approvals

UL1449 SPD Recognized Component
 Type 4 Component Assembly

Standards

- ANSI/IEEE C62.41: 2002 Location C, High Exposure
- ANSI C136.2 10kV BIL
- Meets Surge Protection Requirements of: US Air Force ETL 10-2 LED Fixture Design & Installation Criteria
- Commercial Building Energy Alliances (CBEA) LED Lighting Performance Specifications

ORDERING INFORMATION

Model	Circuit Type	Service	Modes	Maximum Surge Current	Maximum Continuous Operating Voltage	U _p @ 3kA (8/20µs)	U _p @ 10kA (8/20µs)
LS10N-347V-S2	Series Hybrid	120-347V, 5A	L-N,L-G,N-G	10kA	420Vac	920V	1140V
LS10N-480V-S2	Series Hybrid	480V, 5A	L-L, L-G	10kA	510Vac	920V	1140V
LS12N-347V-P2	Parallel Hybrid	120-347V	L-N,L-G,N-G	12kA	420Vac	920V	1140V
LS12N-480V-P2	Parallel Hybrid	480V	L-L, L-G	12kA	510Vac	920V	1140V

DIMENSIONS

Measured in inches (mm)

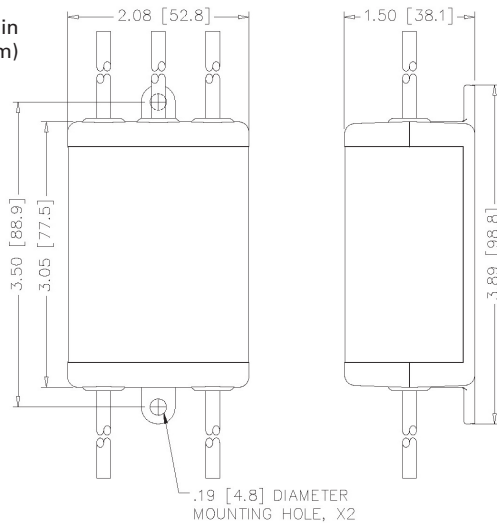


Figure 1: - LS10N models

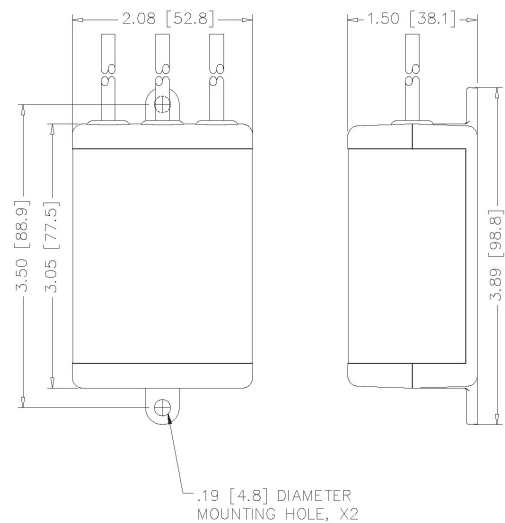


Figure 2: - LS12N models

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