

## Airfield Lighting Field Lightning Arrestor

The LSA-1 is specifically designed for use in airport series lighting and electrical circuits. When LSA-1 modules are added to the 5kV series circuit as specified (one unit every 2000ft) they greatly reduce the risk of potential damage to airfield electronics caused by surges and lightning strikes. In areas where lightning is very common we recommend an LSA-1 every 1000ft for added protection.

### RATINGS

Model	LSA-1
Nominal Voltage	6 KV
Continuous Operation Voltage	5.1 KV
Duty Cycle	10 kA crest (20 current surges) 40 kA crest (2 current surges) 8 / 20 us waveshape
High Current Discharge (Short Duration)	100 kA crest (2 current surges) 4 / 10 us waveshape
Low Current Discharge (Long Duration)	250A crest (20 current surges) 2000 us wave shape
Maximum Discharge Voltage	19.8KV Crest @ 10kA 24.7KV Crest @ 40kA 8 / 20 us waveshape
Protection Index	IP68 (NEMA 6P)
Operating Temperature	-40°C to +60°C
Weight	1.5 kg (3.4 lb)
Shipping Weight	1.8 kg (4 lb)
Arrestor Block Dimensions	3" x 3.125" x 7"



## STANDARD COMPLIANCE

- FAA Advisory Circular AC 150/5345-10F, Section 3.4.12 (Lightning/Surge Arrestors)
- IEC 99-4 and IEC 61822 Section 5.7.4 (Output Lightning Arrestors)
- ICAO Aerodrome Design Manual Doc 9157, Part 5.
- Transport Canada Aerodrome Standards and Recommended Practices, Volume 1, TP-312E.

## DESIGN FEATURES

- Compatible with all types of L-828/L-829 CCRs, L-847 circuit selectors, incandescent and LED light fixtures and isolating transformers operating on 6.6A or 20A series circuits.

- Designed for operation at 5000V, the FLA is suitable for any airfield series circuit up to 30KW at 6.6A, and up to 70KW at 20A.
- Rated IP68 (NEMA 6P), suitable for installation in below ground base cans or pull pits.
- Connection to the primary circuit uses an L-823 male / female "T" connector to ensure the primary circuit remains intact upon a failure of the FLA.
- 3 foot long, 4 AWG, 5kV ground wire for connection to counter poise or grounding rod. No bolts that require special tools or can break the arrestor when tightened to much.
- Compatible with Insulation Resistance Monitoring Systems (IRMS) and 500V to 5KV meggers.
- No exposed connections to the series circuit. Fully insulated design.