

AVI Autonomous Voltage Interrupter



GreenStar’s new AVI is designed to protect LED luminaires from damaging swell (over) or sag (under) voltage conditions which are present in most electrical distribution systems and at point of utilization. The AVI will automatically open the circuit when damaging conditions exist and reclose the circuit automatically when nominal conditions return ensuring 100% protection from voltage swell and sag due to load switching, unbalanced loads, dirty power, over fused conditions etc. The AVI can be used not only with GreenStar products, but also with most electrical equipment which has solid state components that are susceptible to power fluctuations above rated levels.

FEATURES:

Construction—Fully potted IP67 enclosure designed for installation in harsh outdoor environments.

Working Load—The AVI has a 5-amp max load capacity, capable of protecting all LED luminaires up to a maximum input over voltage of 450V.

Electrical— The AVI voltage protection range is 90VAC ± 5V (under voltage cut-off) & 305 VAC ± 5V (overvoltage cut-off). Nominal pass through voltage range is 100 to 300 VAC. AVI conforms to industry and government performance mandates and standards associated with power distribution equipment. Operating frequency 50/60 Hz.

Rated Life – Rated for ≥300K interruption cycles @ 1A load and ≥80K interruption cycles @ 5A load. Rated operating temperature of 75°C (167°F).

Energy Consumption— The AVI consumes less than 1W of power.

Detection Time— The AVI has a <10.0 millisecond reaction time to an over voltage and under voltage event. Reclose only occurs when the input voltage returns to the nominal set voltage range. Contact our technical support for additional information if needed.

Surge Protection—The AVI has self-surge protection of 4 KV in accordance with industry norms and serves as a compliment to PSU and secondary SPD’s.

Listings—ETL, IEC, ANSI, RoHS, IP67 and NEMA compliant.

ORDERING TABLE:

Example: AVIS1EXG

Model	Nominal Voltage	Operating Voltage	Mounting	Communication	Connector
AVI	S (Standard) = 90-305 VAC C = Customized	1=80 to 450 VAC	L = Integrated Luminaire E = External to Luminaire	X = No Communication	X = None G = Gel

DIMENSIONS:

112mm (4.5”) length x 46mm (1.75”) x 32mm (1.25”) height. Weight is 300 grams (0.6 lbs.)

MOUNTING:

Factory Installation: Will be installed in series ahead of the SPD to protect all luminaire electronic components including the SPD.

Field Installation: Should be installed between the input conductors and the luminaire with Gel connectors to ensure a sealed connection.

WARRANTY:

3 years limited factory warranty.