

D15CC55UVPWA24-C



1500mA Programmable LED Driver

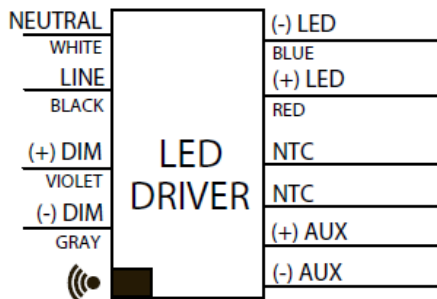
- Universal (120-277V) Input Voltage
- Class 2, 55W Constant Current Output with 0-10V dimming
- Full featured programmability with 24Vdc 50mA auxiliary output

Performance

| | |
|-----------------------|---|
| Input Voltage | 120 ~ 277 Vac |
| Input Current Max | 0.56 / 120V 0.24 / 277V |
| Input Power Max | 65W |
| Input Frequency | 50 - 60 (Hz) |
| Power Factor* | > 0.95 |
| THD max* | < 20 % |
| Output Voltage | 15V to 37V @ 1.50 Amps (Refer to Power Curve Chart) 15V to 56V @ 0.98 Amps |
| Max. Output Current | 1500mA |
| Min. Dimming Current | 15mA |
| Output Power | 55W |
| Standby Power | < 2.8W @ 120Vac < 3.5W @ 277Vac |
| Line Regulation | ±3 % |
| Load Regulation | ±5 % |
| Output Current Ripple | <10% (Pk-Pk/avg) |
| Inrush Current | 120V: 10.3A / 250uS |
| Peak / >50% Duration | 277V: 17.5A / 250uS |

* Refer to charts for additional information
 - Harmonic Emissions comply with ANSI C82.77
 - Inrush current complies with NEMA 410

Wiring Diagram:



Auxiliary Output

| | |
|----------------|-------|
| Output Voltage | 24Vdc |
| Output Current | 50 mA |

Physical

| | |
|---|---------------------|
| Length | 14.25 in (362 mm) |
| Width | 1.18 in (30 mm) |
| Height | 1.00 in (25.4 mm) |
| Mounting Length | 13.75 in (349.3 mm) |
| Weight (lbs) | 1.0 |
| Wire Trap / Plug-in Connectors for 16-24 AWG Solid Wire | |

Environmental

| | |
|----------------------------|---|
| EMI and RFI | Meets FCC part 15 (Class A) Non-Consumer Limits |
| Min. Operating Temperature | -40°C (-40°F) |
| Storage Temperature | -40°C to 85°C (-40°F to 185°F) |
| tc | 85°C (185°F) max |
| Protection Rating | UL Dry & Damp |
| Transient Protection | IEEE C62.41 2.5kV |

Protection
 Over Voltage, Under Voltage, Short Circuit, Over Temp
 Safety:
 UL 8750 & CSA 250.13
 UL Class P



Ordering Information

| Order Number | Description | Qty/Carton |
|----------------------|------------------|------------|
| D15CC55UVPWA24-C010C | Standard Product | 10 |

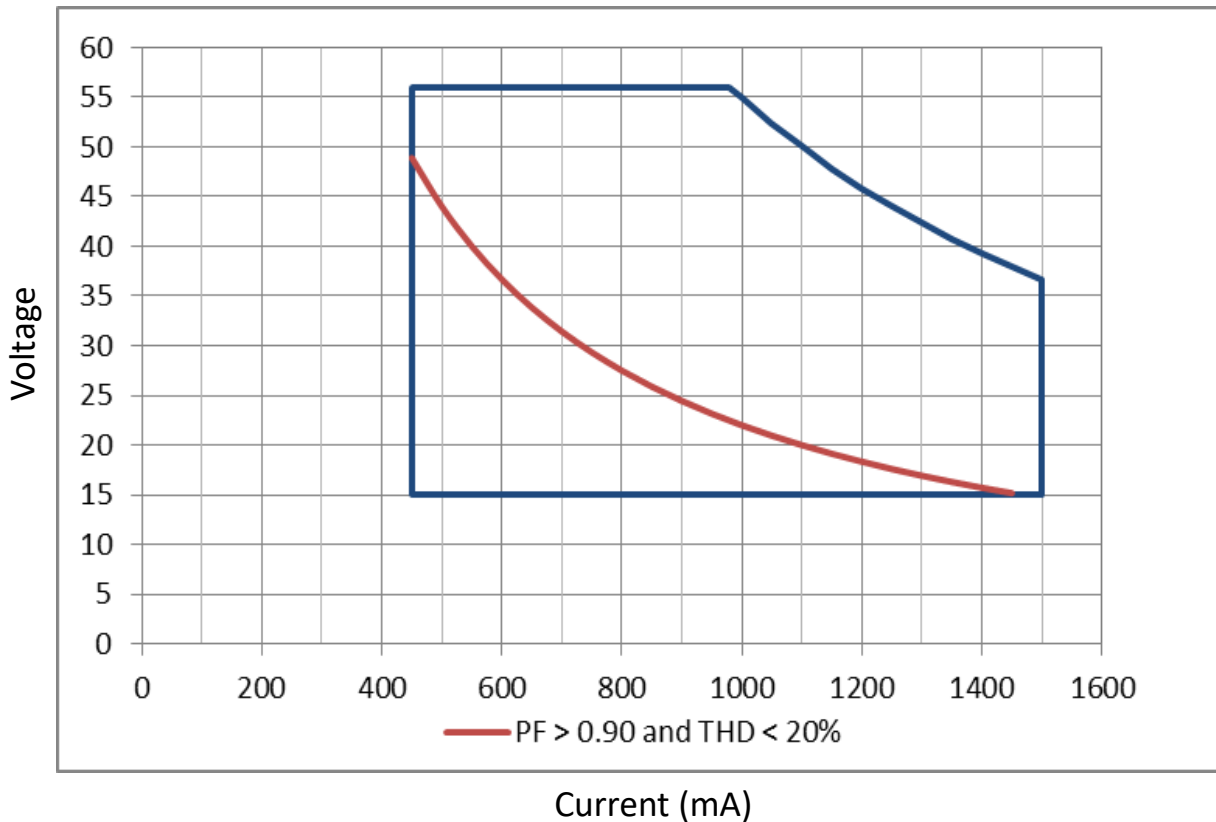
Application and operation performance specification information subject to change without notification.

| Programmable Features |
|---|
| Output Current |
| Minimum Dimming Level |
| Dim-to-Off |
| Dimming Curve (Linear, Linear Soft Start, Logarithmic) |

*Refer to application note EVD10 at www.unvlt.com for additional information on programmable features.

| Programming System | |
|--------------------|------------------------------|
| Software | EVERset Programming Software |
| Hardware | LDPC000A Configuration Tool |
| Driver Interfaces | Wired via 0-10V leads |
| | Wireless via RFID |

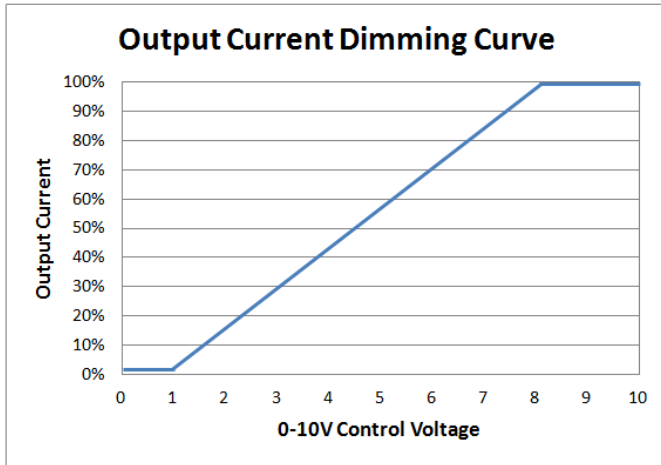
Driver Operating Range:



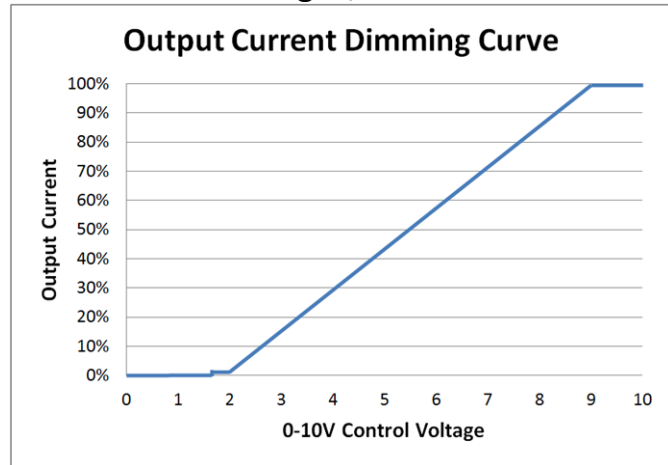
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0-10V Dimming

Linear Dimming to 1%



Linear Dimming w/ Dim-to-Off*



* Driver ships with Dim-to-Off disabled. Dim-to-Off must be enabled through the EVERset programming software.

0-10V Analog Dimming Interface

- Analog 0 to 10 vDC Voltage Control
- Use Violet (+) & Gray (-) for connection to 0-10vDC.
- 10v = maximum output, 0v = minimum output
- Wiring Violet & Gray together provides min. light output.
- Capping Violet & Gray separately provides 100% light output.
- 0-10V interface can be wired as Class 1 or Class 2 Circuit.
- Driver will source a maximum of 200uA for control needs.
- Controller must sink current from the 0-10V control leads.

Programmable Dimming Features

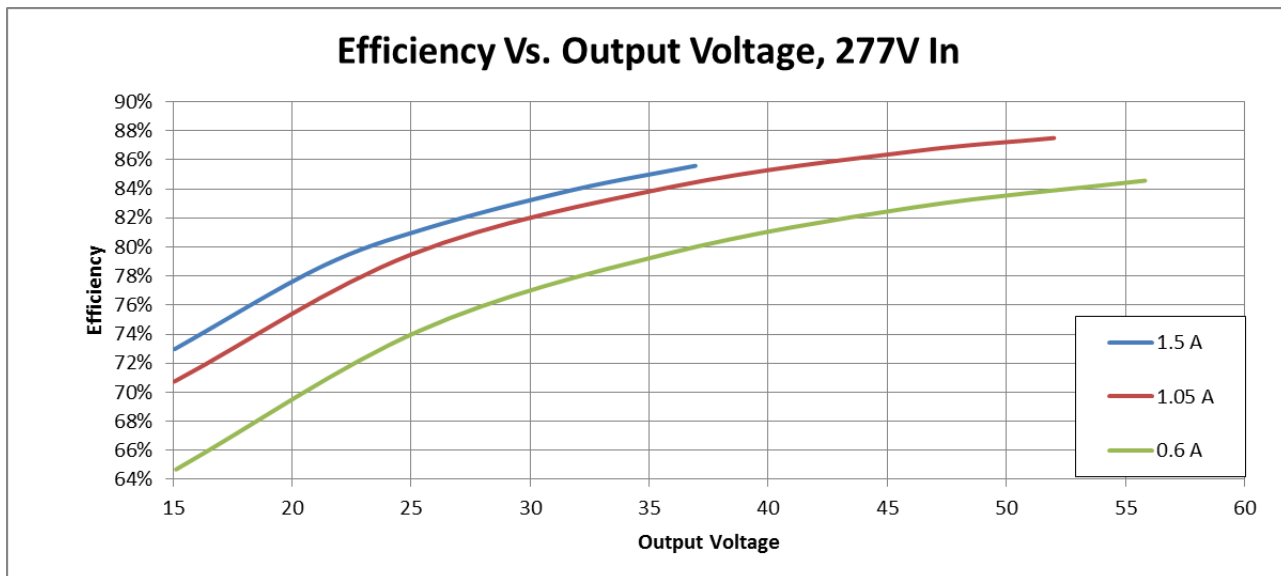
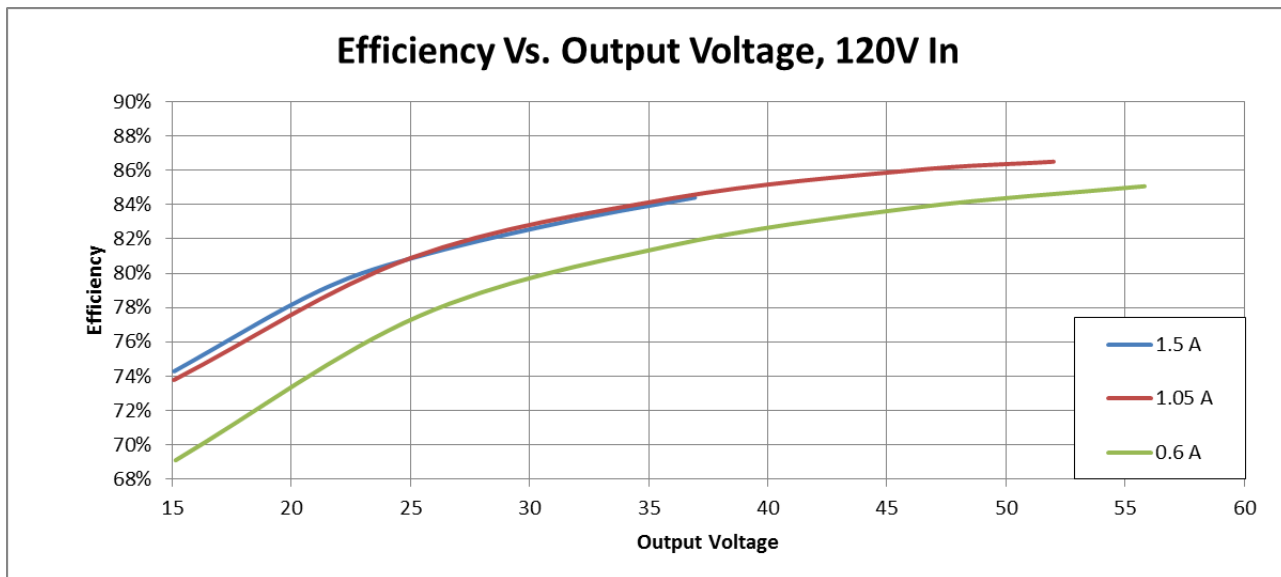
| Feature | Range | Factory Default |
|-------------------------------|---|---------------------------|
| Maximum Output Current | 450 - 1500mA | default = 1500mA |
| Minimum Dimming Level | 15 - 375mA | default = 15mA |
| Dimming Curve | (Linear, Linear Soft Start, Logarithmic w/ factor 1 to 7) | default = Linear |
| Dimming Control Voltage Range | | |
| Max Bright Control Voltage | 7 - 9Vdc | default = 8Vdc |
| Min Dim Level Control Voltage | 1 - 3Vdc | default = 1Vdc |
| Dim-to-Off | 0.1 - 1.7Vdc | default = 0Vdc (disabled) |

* Refer to application note EVD10 at www.unvlt.com for additional information on programmable dimming features.

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Performance: Efficiency

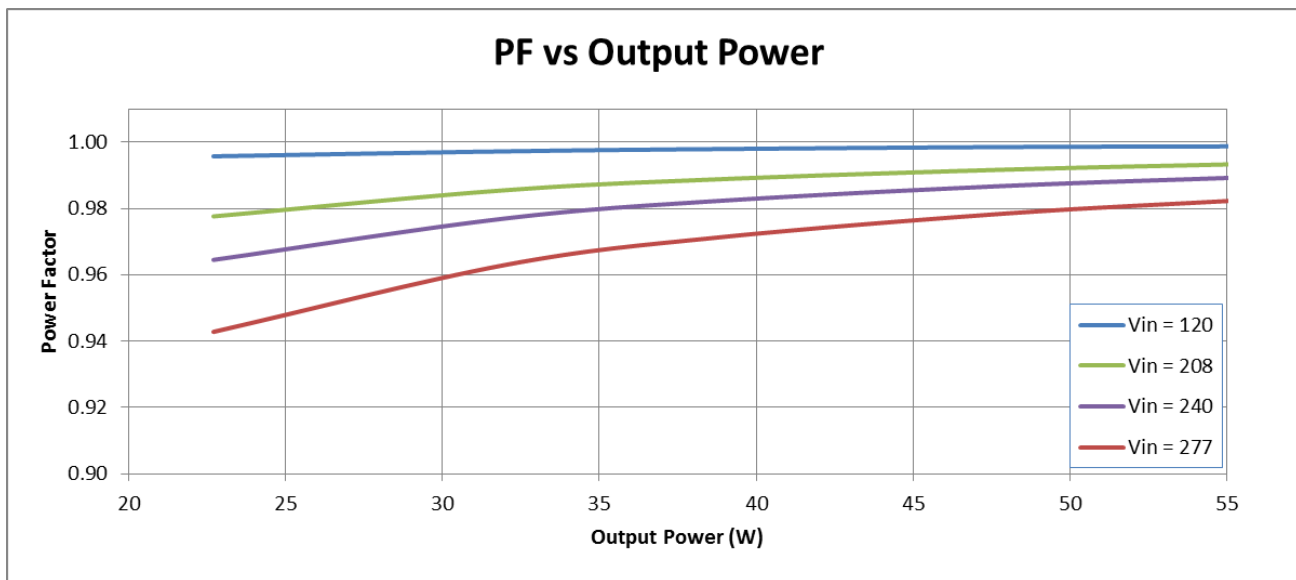
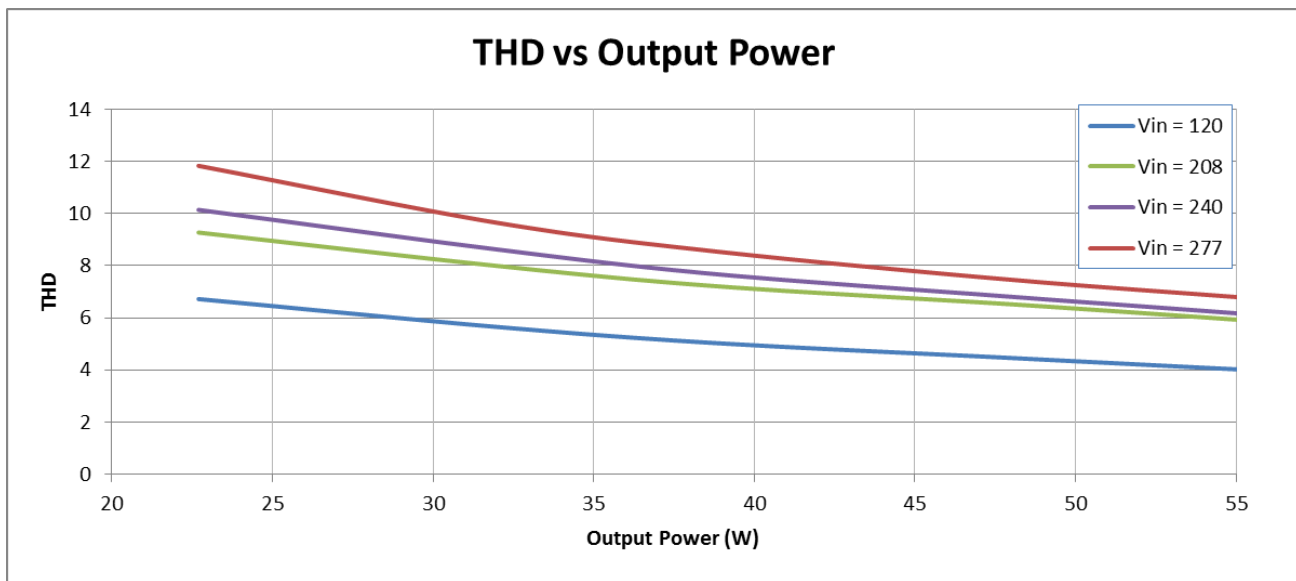
Typical performance measurements are shown. The charts are to be used as a guideline and not for specification use.



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Performance: Total Harmonic Distortion, & Power Factor

Typical performance measurements are shown. The charts are to be used as a guideline and not for specification use.



Output power based on maximum rated output current and varying load voltages.

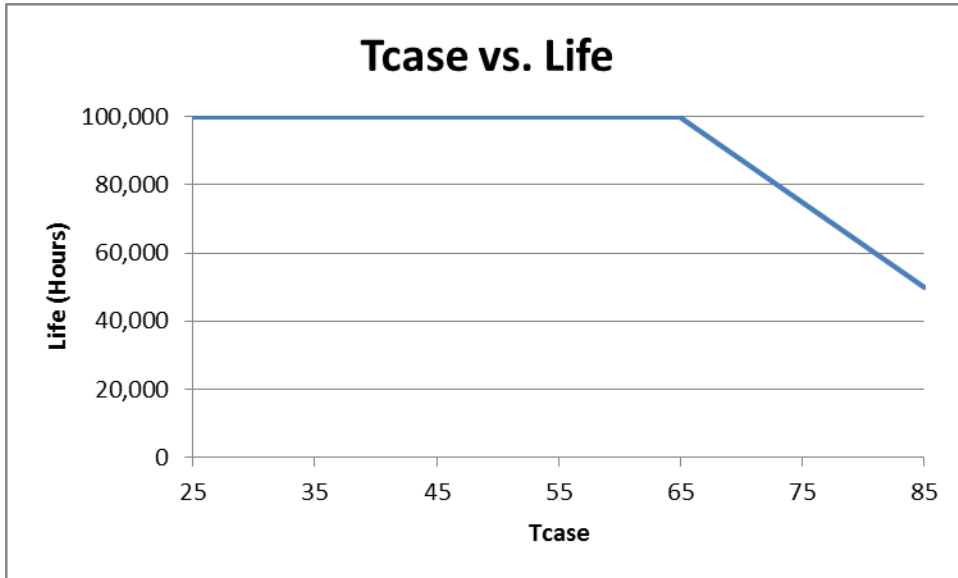
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| Transient Protection | | |
|---|-------------------------|-------------------------------|
| Transient | Differential Mode (L-N) | Common Mode (L-G, N-G, L&N-G) |
| IEEE C62.41 100kHz Ring Wave (200A maximum) | > 2.5kV | > 2.5kV |

| Isolation | | | | | | |
|-----------|-----------|--------------|-----------|--------------|--------------|-----------|
| Isolation | Input | Output | 0-10V | Auxiliary | NTC | Enclosure |
| Input | - | 2xU + 1kV | 2xU + 1kV | 2xU + 1kV | 2xU + 1kV | 2xU + 1kV |
| Output | 2xU + 1kV | - | 2xU + 1kV | Non-isolated | Non-isolated | 700V |
| 0-10V | 2xU + 1kV | 2xU + 1kV | - | 2xU + 1kV | 2xU + 1kV | 2xU + 1kV |
| Auxiliary | 2xU + 1kV | Non-isolated | 2xU + 1kV | - | Non-isolated | 700V |
| NTC | 2xU + 1kV | Non-isolated | 2xU + 1kV | Non-isolated | - | 2xU + 1kV |
| Enclosure | 2xU + 1kV | 700V | 2xU + 1kV | 700V | 2xU + 1kV | - |

U = Max Input Voltage

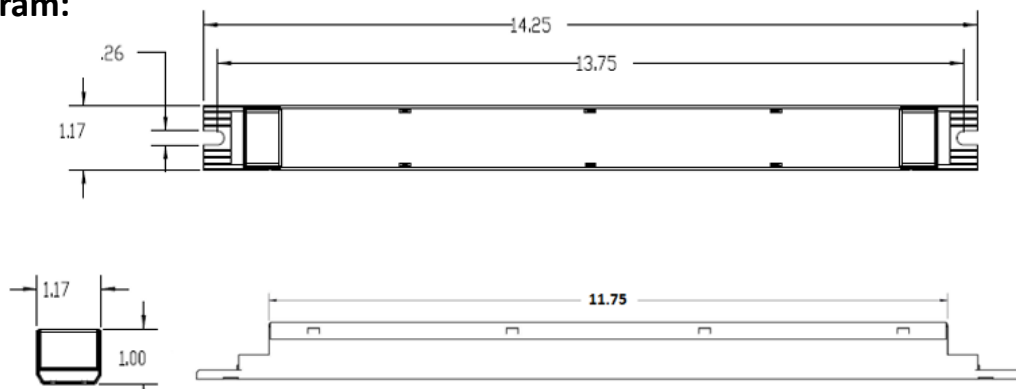
Driver Lifetime vs. Driver Case Temperature



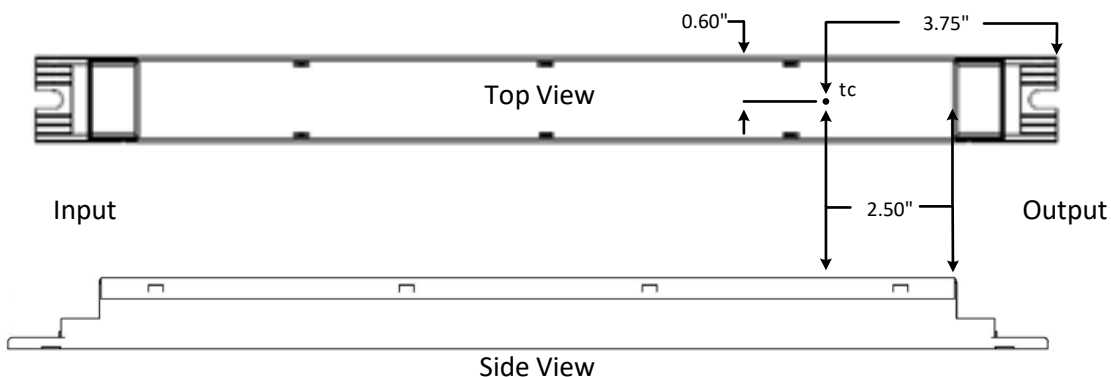
The Data curve provided predicts the LED Driver life based on the case temperature measured at the Tc location identified on the label or specification sheet. The Telecordia SR-332 standard is used to generate the prediction curves.

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Dimensional Diagram:



Tc Location:



FCC Statement: This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Warranty:

Universal Lighting Technologies warrants to the purchaser that each power supply will be free from defects in material or workmanship for a period of 5 years from the date of manufacture when properly installed per instructions and under normal operating conditions of use. Call 1-800-225-5278 for technical assistance.

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