

# D10CC30UNVPWX24-K/KS

## 1050mA Programmable LED Driver

- Class 2, 30W constant current output with 0-10V dimming
- Full featured programmability with 24Vdc 50mA auxiliary output
- Low standby power (<0.5W) in dim-to-off state

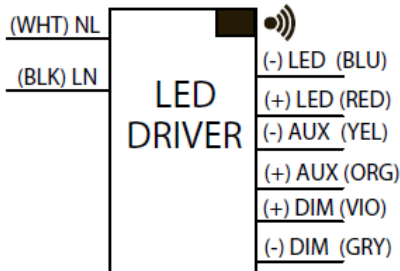


### Performance

|  |  |
|--|--|
| Input Voltage                                  | 120 ~ 277 Vac                                    |
| Input Current Max                              | 0.29 /120V 0.13 / 277V                           |
| Input Power Max                                | 36W  |
| Input Frequency                                | 50 - 60 (Hz)                                     |
| Power Factor                                   | > 0.95 @ max load                                |
| THD max  | < 20 % @ max load                                |
| Output Voltage<br>(Refer to Power Curve Chart) | 16V to 29V @ 1.05 Amps<br>16V to 56V @ 0.53 Amps |
| Max. Output Current                            | 1050mA   |
| Min. Dimming Current                           | 4mA  |
| Output Power                                   | 30W  |
| Standby Power                                  | < 0.5W @120Vac<br>< 0.5W @ 277Vac                |
| Line Regulation                                | ±3 %   |
| Load Regulation                                | ±5 %   |
| Output Current Ripple                          | <10% (Pk-Pk/avg)                                 |
| Inrush Current*<br>Peak / >10% Duration        | 120V: 18A / 304uS<br>277V: 43A / 278uS           |
| LED Start Up Time                              | <500mS initial, <600mS full<br>CA T-24 Compliant |

\* Source impedance per NEMA 410

### Wiring Diagram:



Use wire extraction tool to remove wires from connectors

### Auxiliary Output

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

### Physical

|  |                       |
|--|-----------------------|
| Length   | 4.93 in               |
| Width  | 2.95 in               |
| Height   | 1.00 in               |
| Mounting Length (K)  | 4.59" (mounting feet) |
| Mounting Length (KS)   | 2.00" (#8-32 studs)   |
| Weight (lbs)   | 1.0                   |
| Wire Trap / Plug-in Connectors for 16-20 AWG Solid Wire<br>Strip length 0.33in |                       |

### Environmental

|                       |  |
|-----------------------|--|
| EMI and RFI           | Meets FCC part 15 (Class A)<br>Non-Consumer Limits |
| Operating Temperature | -40°C to 50°C<br>(-40°F to 122°F)                  |
| Storage Temperature   | -40°C to 85°C<br>(-40°F to 185°F)                  |
| tc                    | 85°C max for warranty<br>90°C max for UL           |
| 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 |
|------------------------|---------------------|------------|
| D10CC30UNVPWX24-K010C  | Multi-Exit          | 20         |
| D10CC30UNVPWX24-KS010C | Bottom Exit w/Studs | 20         |

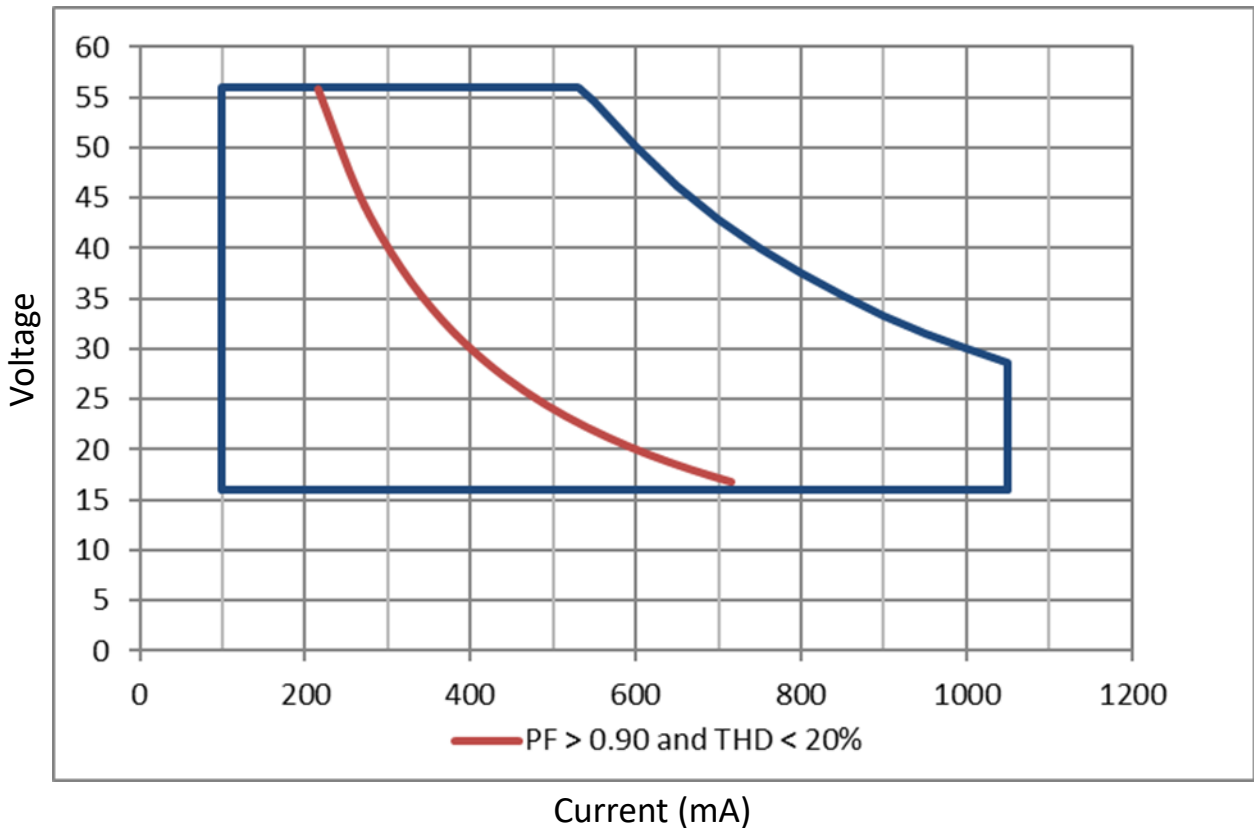
Application and operation performance specification information subject to change without notification.

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

| Programming System |                              |
|--------------------|------------------------------|
| Software           | EVERset Programming Software |
| Hardware           | LDPC000A Configuration Tool  |
| Driver Interface   | Wireless via RFID            |

\*Refer to application notes EVD10 and EVD11 at [www.unvlt.com](http://www.unvlt.com) for additional information on programmable features.

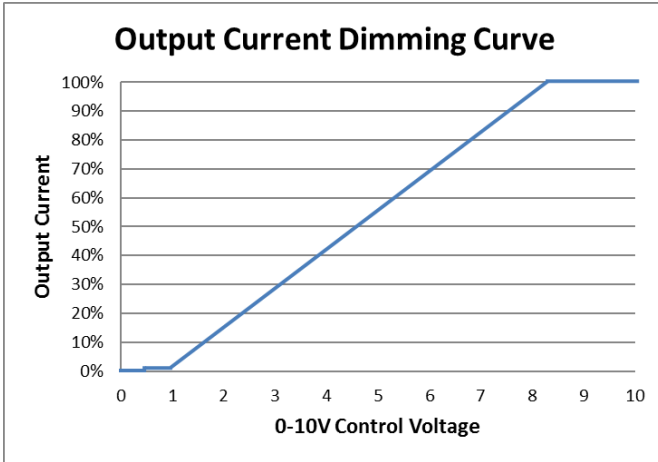
## Driver Operating Range:



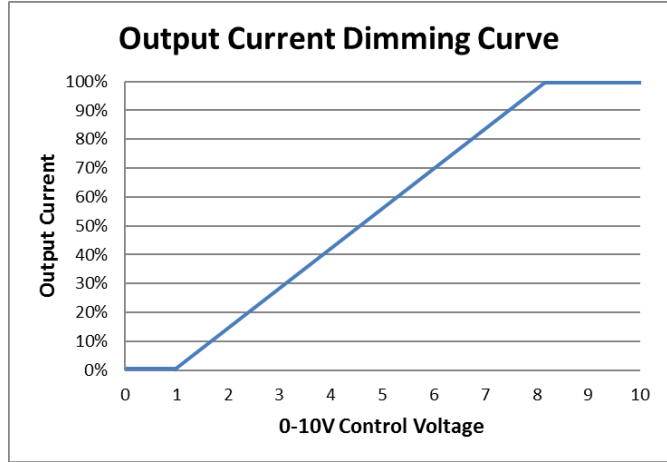
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## 0-10V Dimming

Linear Dimming w/ Dim-to-Off



Linear Dimming to 1%\*



\* Driver ships with Dim-to-Off enabled. Dim-to-Off can be disabled 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 = dim-to-off or minimum programmed output
- 0-10V interface can be wired as Class 1 or Class 2 Circuit.
- Driver will source a maximum of 165uA for control needs.
- Controller must sink current from the 0-10V control leads.

### Programmable Dimming Features

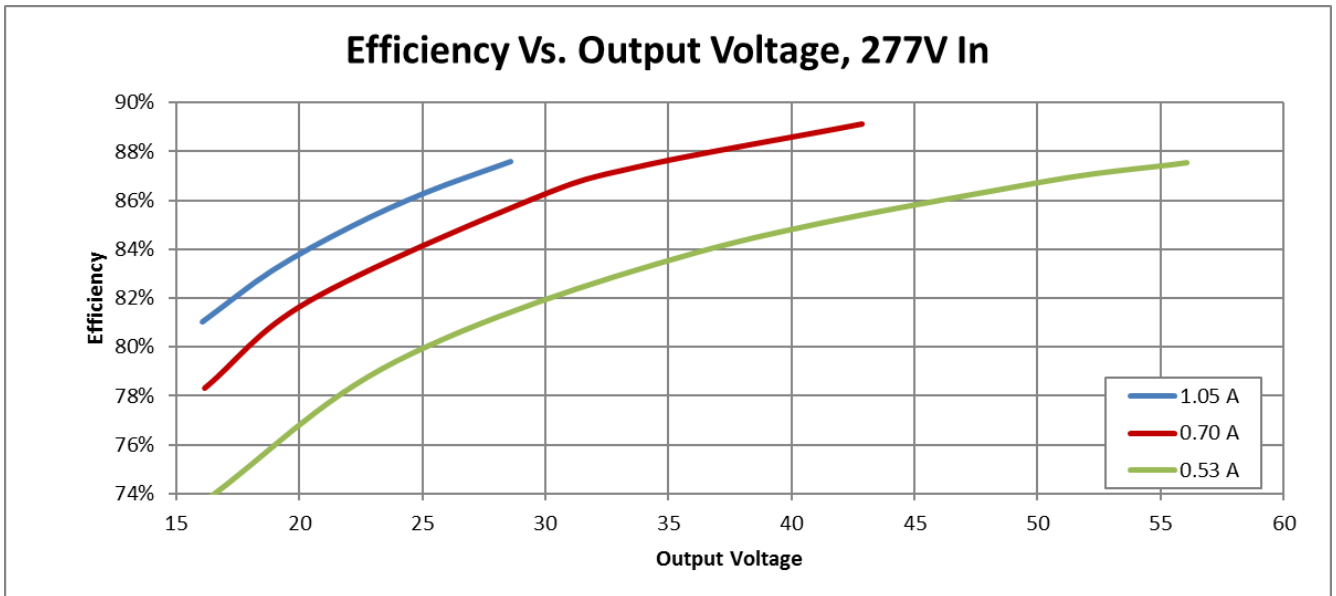
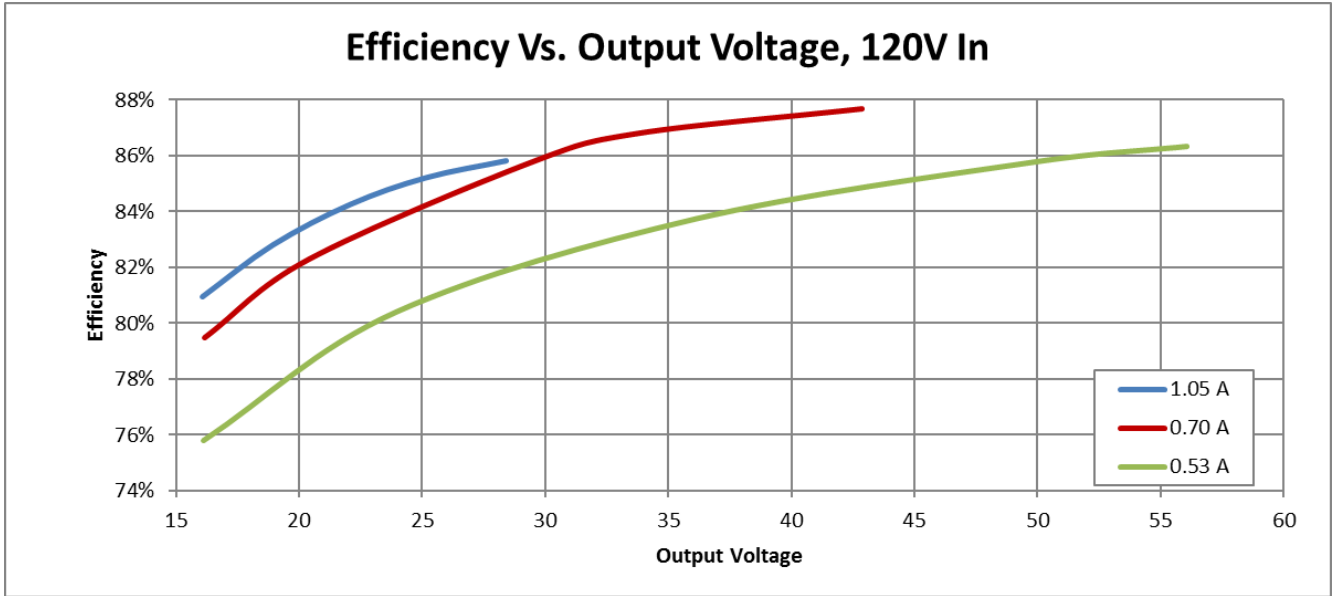
| Feature                       | Range   | Factory Default  |
|-------------------------------|---|------------------|
| Maximum Output Current        | 100 - 1050mA  | default = 1050mA |
| Minimum Dimming Level         | 4 - 525mA   | default = 10mA   |
| Dimming Curve                 | (Linear, Linear 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; 0 = disabled                                | default = 0.5Vdc |

\* Refer to application note EVD10 at [www.unvlt.com](http://www.unvlt.com) for additional information on programmable dimming features.

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## Performance: Efficiency

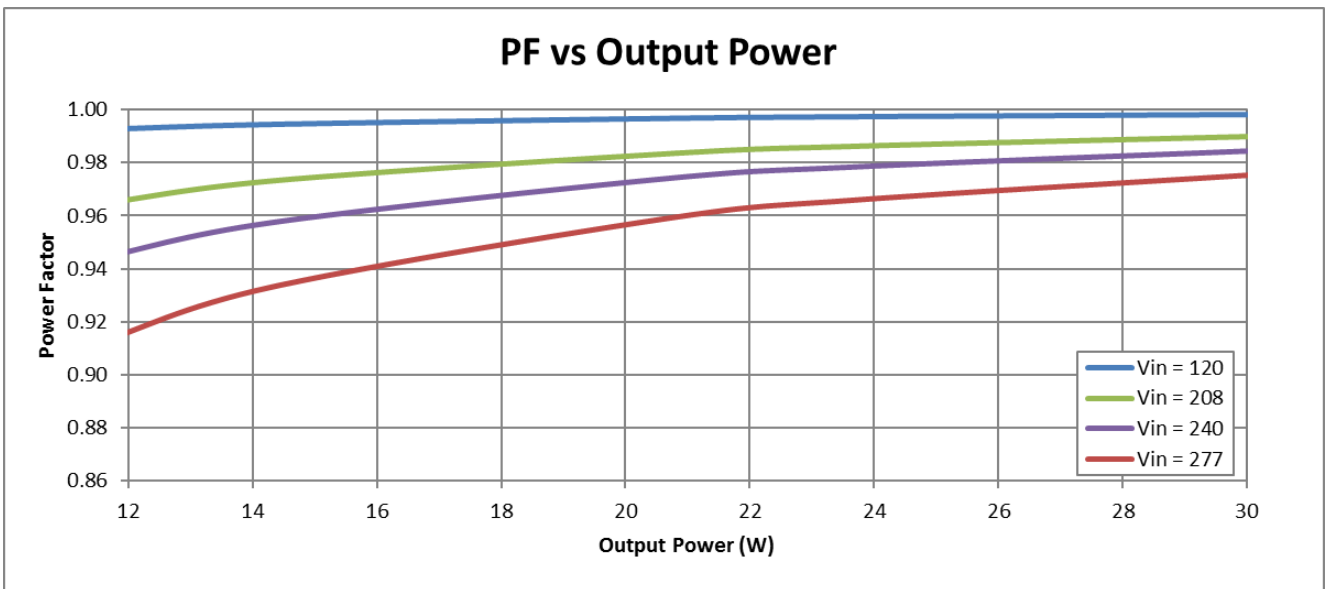
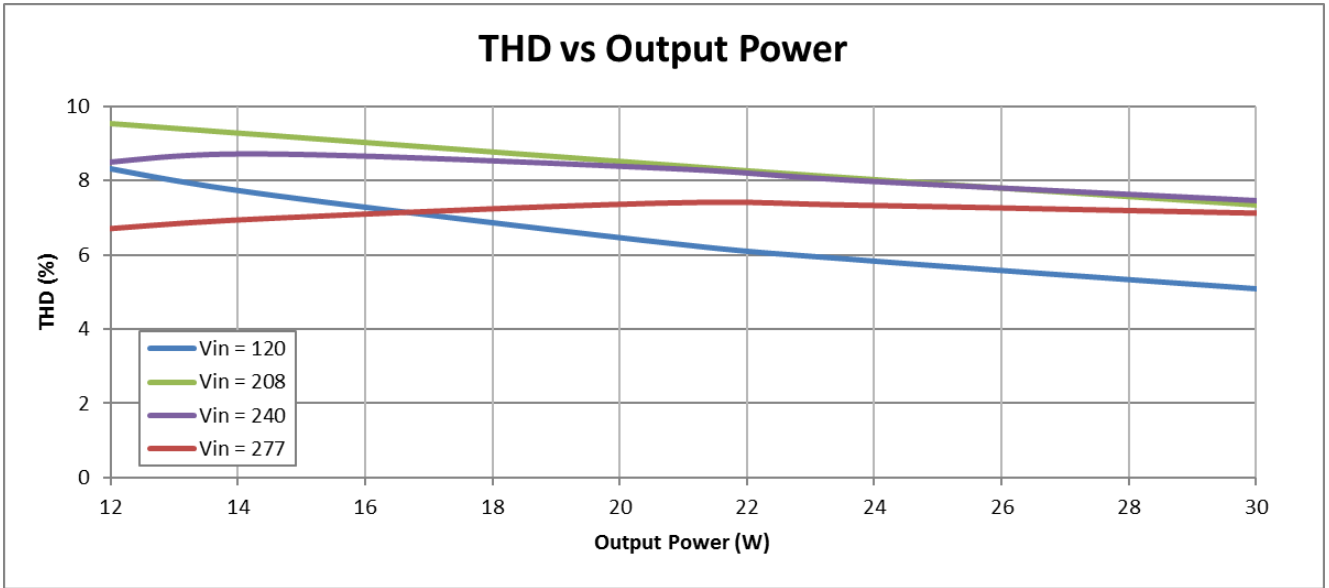
Typical performance measurements are shown. The charts are to be used as a guideline and not for specification use.



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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.

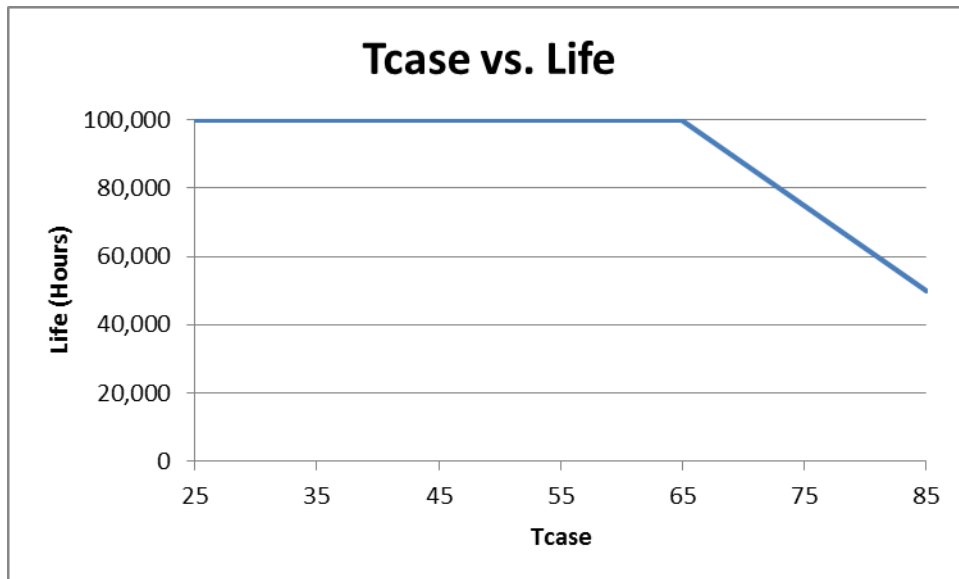
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| Transient Protection                        |                         |                               |
|---|-------------------------|-------------------------------|
| Transient                                   | Differential Mode (L-N) | Common 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    | Enclosure |
| Input     | -         | 2xU + 1kV    | 2xU + 1kV | 2xU + 1kV    | 2xU + 1kV |
| Output    | 2xU + 1kV | -            | 2xU + 1kV | Non-isolated | 700V      |
| 0-10V     | 2xU + 1kV | 2xU + 1kV    | -         | 2xU + 1kV    | 2xU + 1kV |
| Auxiliary | 2xU + 1kV | Non-isolated | 2xU + 1kV | -            | 700V      |
| Enclosure | 2xU + 1kV | 700V         | 2xU + 1kV | 700V         | -         |

U = Max Input Voltage

## Driver Lifetime vs. Driver Case Temperature

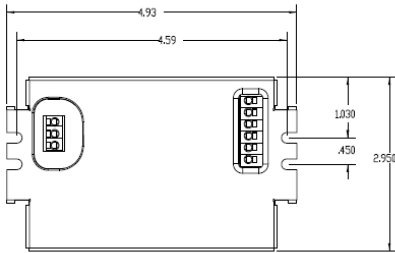


The Data curve provided predicts the LED Driver life based on the case temperature measured at the Tc location identified on the label or specification sheet. The Telecordia SR-332 standard is used to generate the prediction curves.

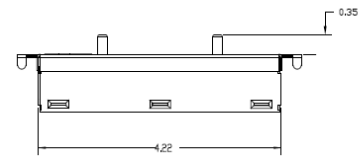
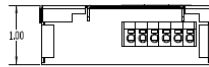
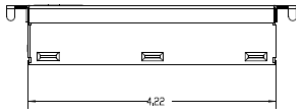
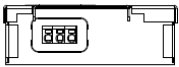
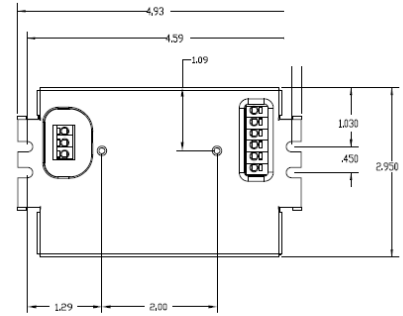
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## Dimensional Diagram:

-K

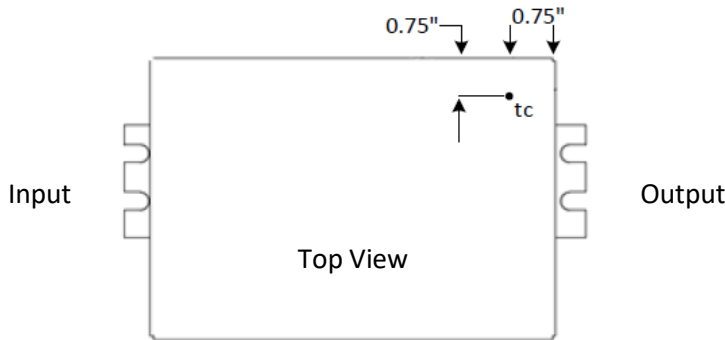


-KS



KS Provides lead exits at the bottom only

## 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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