



D15CC55UNVTW-C

1500mA LED Driver w/ Constant Power Tuning

- Universal (120-277V) Input Voltage
- Class 2, 55W Constant Current Output
- 0-10V Dimming to 1%



Performance

| | |
|-----------------------|---|
| Input Voltage | 120 ~ 277 Vac |
| Input Current Max | 0.56 /120V 0.24/277V |
| Input Power Max | 63W |
| 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 |
| 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 409

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/2.5kV |

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 18 AWG Solid Wire | |

Protection

Over voltage, Under voltage, short circuit, and over temp.

Safety:

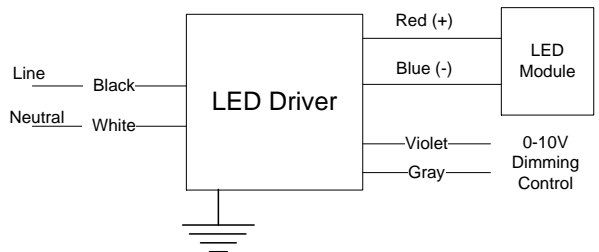
UL 8750 & CSA 250.13-12
Class P

Ordering Information

| Order Number | Description | Qty/Carton |
|-------------------|------------------|------------|
| D15CC55UNVTW-CN0C | Standard Product | 10 |

*Consult Factory for Tuning ordering information

Wiring Diagram:



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Programmable Tuned Output Settings

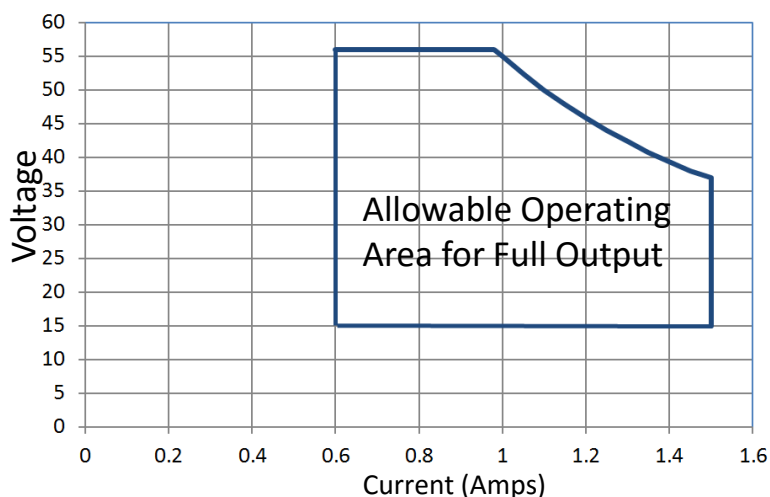
- This Everline LED Driver can be configured to set its current output to a selected fraction of their maximum rated design level. This function is called tuning (or also high-end trim) and it can be implemented with the LPTC01U using the Selector rotary switches. Tuning assignments are stored in driver memory and are not lost when power is removed. All factory produced drivers are tuned to maximum output unless otherwise noted on the label.
- Tuning SET Levels are listed in the table to the right. The SET Level corresponds to an associated Output Current value.
- Tuned output tolerance of $\pm 5\%$.
- Refer to application note EVD09 at www.unvlt.com for additional information.

| Set Value | Output Current (A) |
|-----------|--------------------|
| 100 | 1.50 |
| 99 | 1.48 |
| 98 | 1.46 |
| 97 | 1.45 |
| 96 | 1.43 |
| 95 | 1.42 |
| 94 | 1.40 |
| 93 | 1.39 |
| 92 | 1.37 |
| 91 | 1.36 |
| 90 | 1.34 |
| 89 | 1.33 |
| 88 | 1.31 |
| 87 | 1.30 |
| 86 | 1.28 |
| 85 | 1.27 |
| 84 | 1.25 |
| 83 | 1.24 |
| 82 | 1.22 |
| 81 | 1.21 |

| Set Value | Output Current (A) |
|-----------|--------------------|
| 80 | 1.19 |
| 79 | 1.18 |
| 78 | 1.16 |
| 77 | 1.15 |
| 76 | 1.13 |
| 75 | 1.12 |
| 74 | 1.10 |
| 73 | 1.09 |
| 72 | 1.07 |
| 71 | 1.06 |
| 70 | 1.04 |
| 69 | 1.03 |
| 68 | 1.01 |
| 67 | 1.00 |
| 66 | 0.98 |
| 65 | 0.97 |
| 64 | 0.95 |
| 63 | 0.94 |
| 62 | 0.92 |
| 61 | 0.91 |

| Set Value | Output Current (A) |
|-----------|--------------------|
| 60 | 0.89 |
| 59 | 0.88 |
| 58 | 0.86 |
| 57 | 0.85 |
| 56 | 0.84 |
| 55 | 0.82 |
| 54 | 0.81 |
| 53 | 0.79 |
| 52 | 0.78 |
| 51 | 0.76 |
| 50 | 0.75 |
| 49 | 0.73 |
| 48 | 0.72 |
| 47 | 0.70 |
| 46 | 0.69 |
| 45 | 0.67 |
| 44 | 0.66 |
| 43 | 0.64 |
| 42 | 0.63 |
| 41 | 0.61 |
| 40 | 0.60 |

Driver Operating Range



For points along the curve:

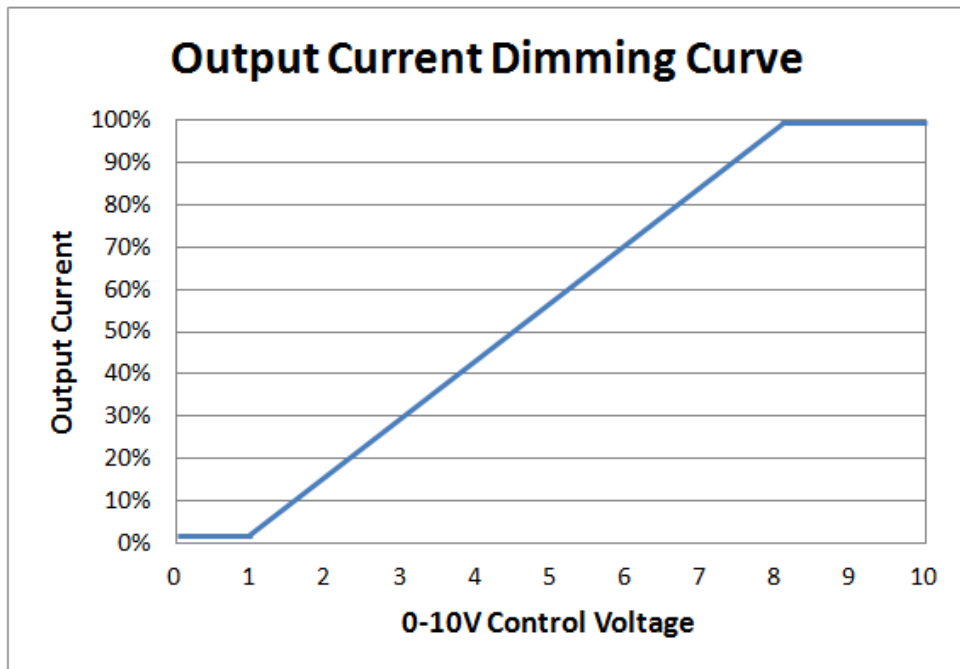
- * Maximum output current will not exceed 1.5A.
- * Maximum output voltage will not exceed 56V.
- * Output power (Volts x Amps) will not exceed 55W.



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0-10V Dimming



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 must be wired as a Class 2 Circuit.
- Driver will source a maximum of 200uA for control needs.
- Controller must sink current from the 0-10V control leads.

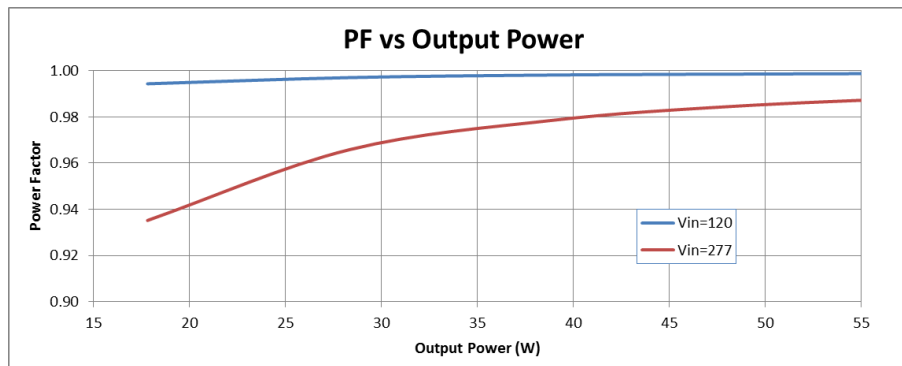
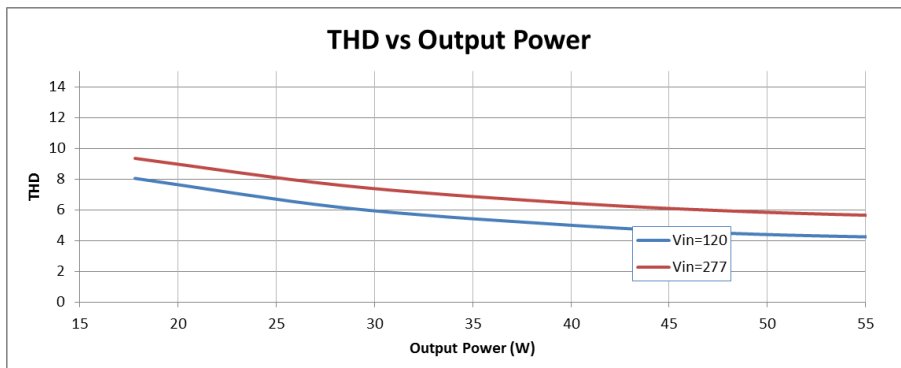
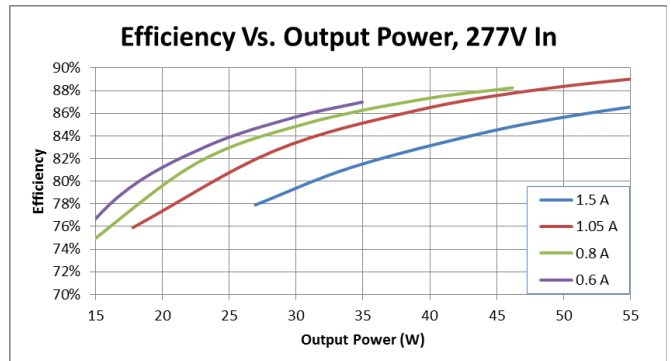
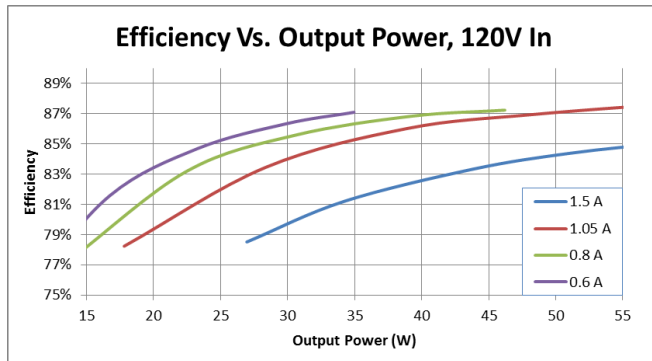


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Performance: Efficiency, THD, & Power Factor

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



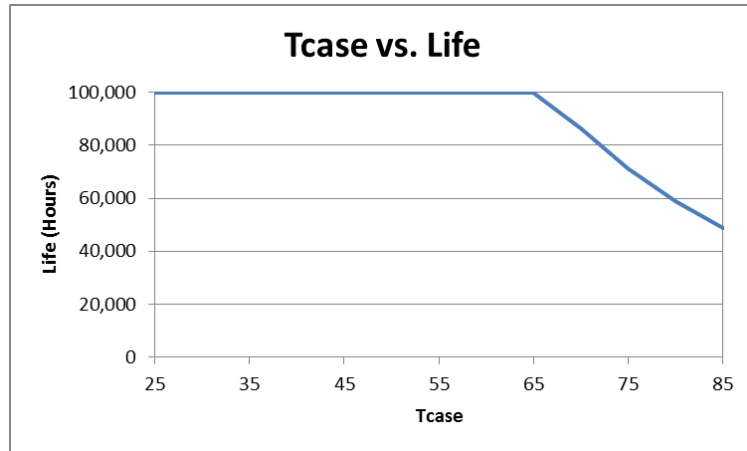
Output power based on maximum rated output current and varying load voltages.



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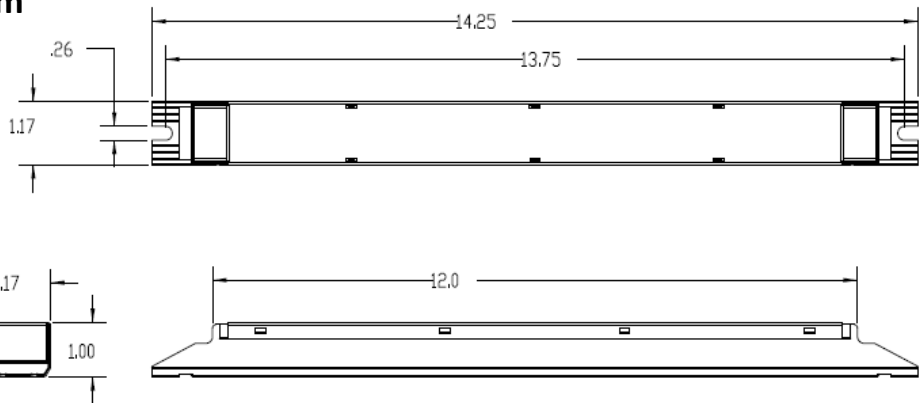


Life vs. Driver Tcase



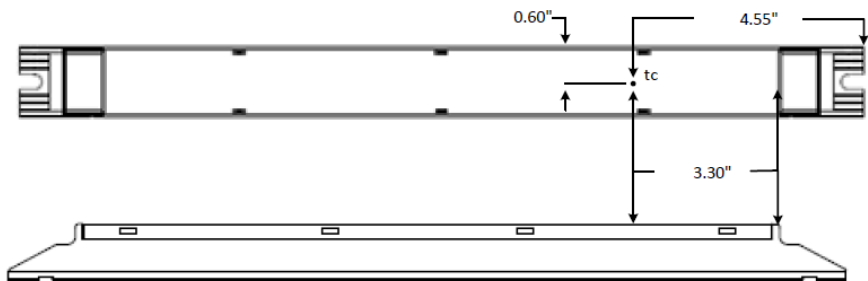
The Data curve provided predicts the LED Driver life based on the case temperature measured at the Tc location identified on the label or specification sheet. The Telecordia SR-332 standard is used to generate the prediction curves.

Dimensional Diagram



Tc Location:

Input



Output



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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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