



# D10CC55UNVTZ-C



## 1050mA LED Driver w/ 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	0.54 /120V 0.23/277V
Input Power Max	63W
Input Frequency	50 - 60 (Hz)
Power Factor*	> 0.95
THD max*	< 20 %
Output Voltage	15-53V
Max. Output Current	1050mA
Min. Dimming Current	11mA
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 410

### 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

### 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:

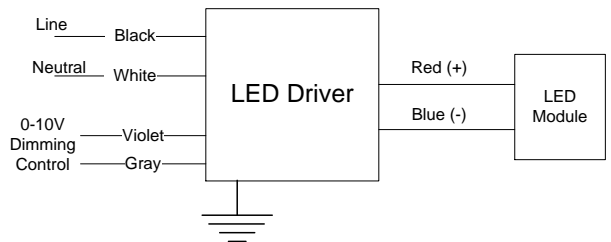
UL 8750 & CSA 250.13-12  
Class P

### Ordering Information

Order Number	Description	Qty/Carton
D10CC55UNVTZ-CN0C	Standard Product	10

\*Consult Factory for Tuning ordering information

### Wiring Diagram:



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



## 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](http://www.unvlt.com) for additional information.

Set Value	Output Current (A)
100	1.050
99	1.040
98	1.029
97	1.019
96	1.008
95	0.998
94	0.987
93	0.976
92	0.966
91	0.955
90	0.945
89	0.934
88	0.924
87	0.913
86	0.902
85	0.892
84	0.881
83	0.871
82	0.860
81	0.849

Set Value	Output Current (A)
80	0.839
79	0.828
78	0.817
77	0.807
76	0.796
75	0.786
74	0.775
73	0.764
72	0.754
71	0.743
70	0.732
69	0.722
68	0.711
67	0.701
66	0.690
65	0.679
64	0.669
63	0.658
62	0.648
61	0.637

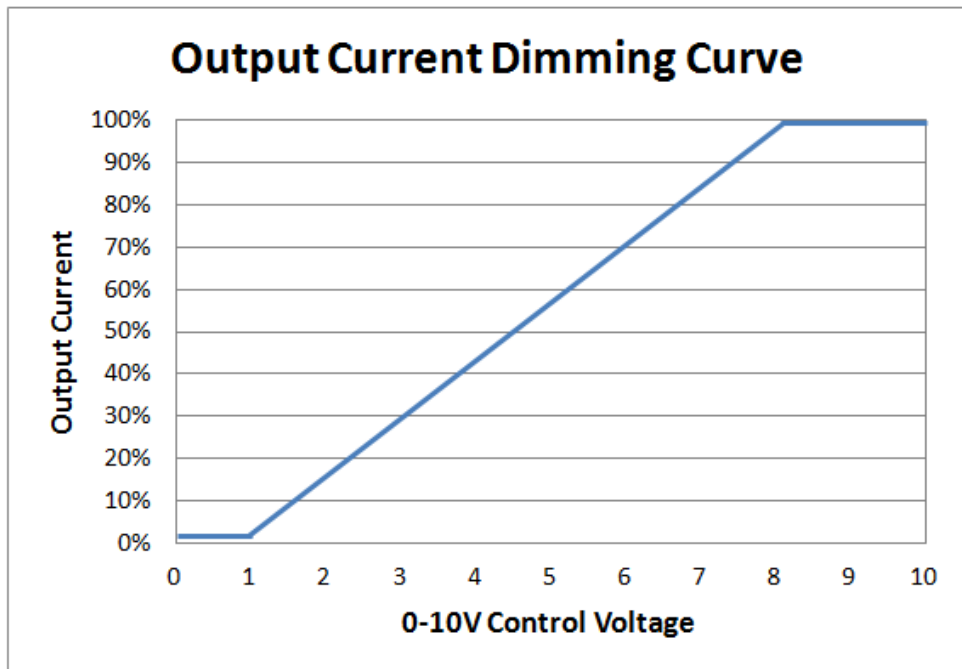
Set Value	Output Current (A)
60	0.626
59	0.616
58	0.605
57	0.595
56	0.584
55	0.574
54	0.563
53	0.553
52	0.542
51	0.532
50	0.521
49	0.511
48	0.500
47	0.490
46	0.479
45	0.469
44	0.459
43	0.448
42	0.438
41	0.427
40	0.417



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



## 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.

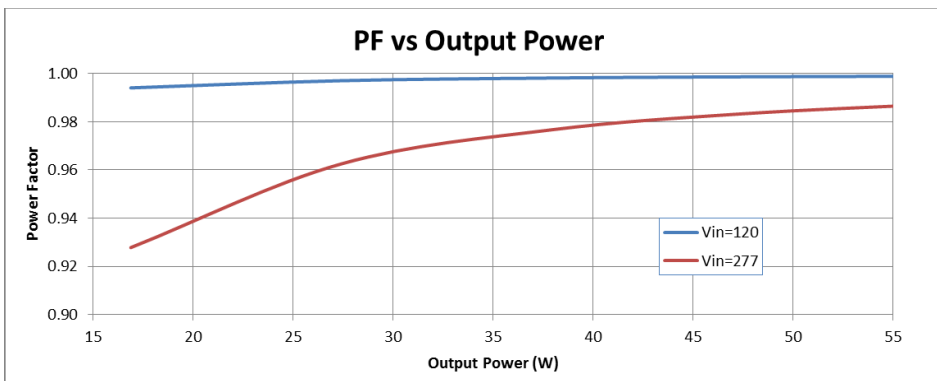
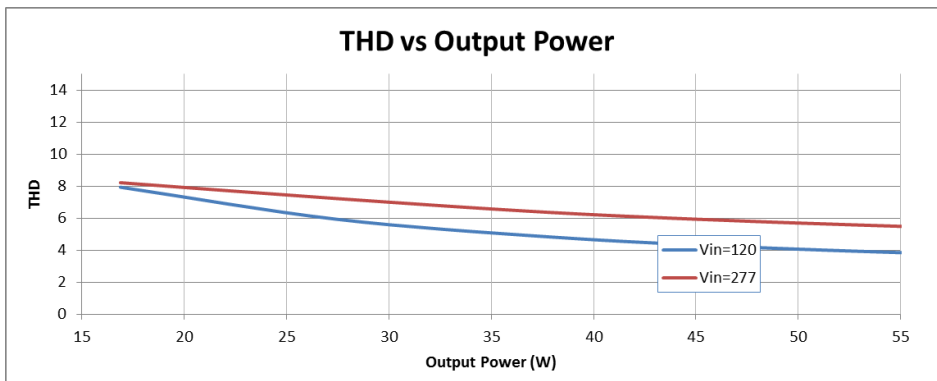
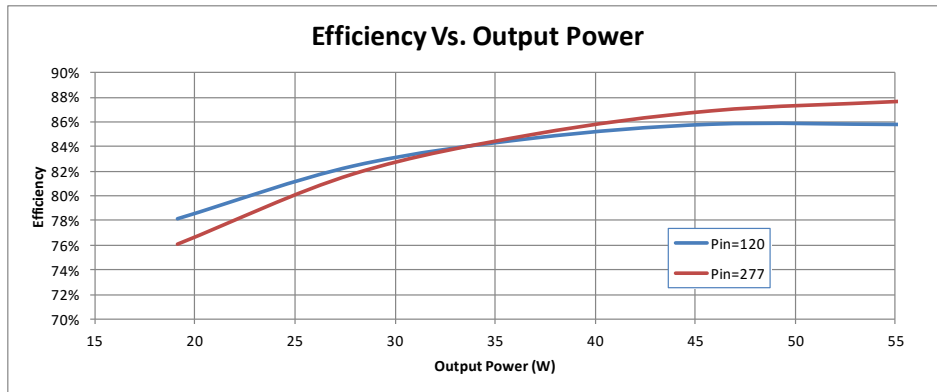


Application and operation performance specification information subject to change without notification.



## Performance: Efficiency, THD, & Power Factor

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



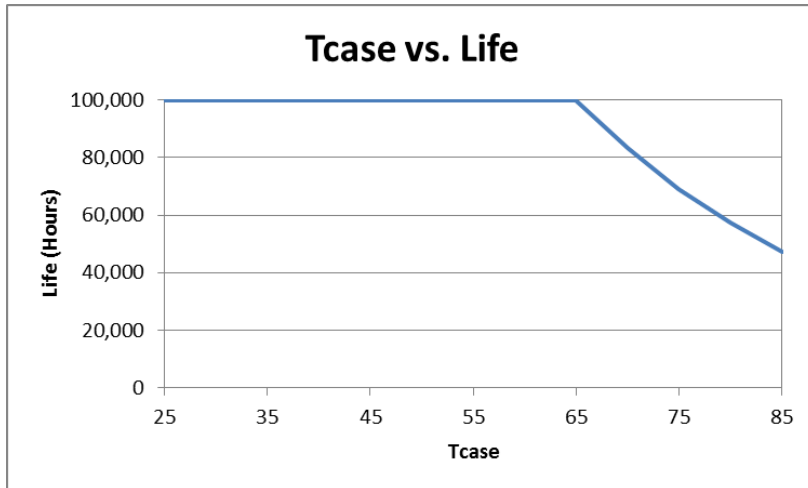
Output power based on maximum rated output current and varying load voltages.



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

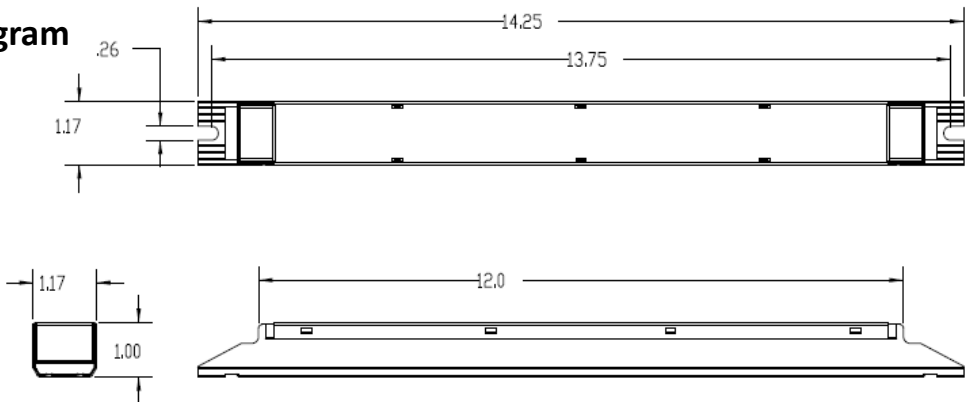


## Life vs. Driver Tcase

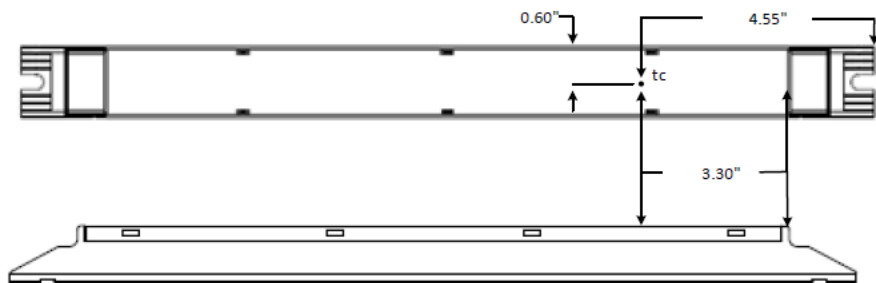


The Data curve provided predicts the LED Driver life based on the case temperature measured at the Tc location identified on the label or specification sheet. The Telecordia SR-332 standard is used to generate the prediction curves.

## Dimensional Diagram



Tc Location:



Input

Output



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



# D10CC55UNVTZ-C

---

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.



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