



D15CC55UNVTZ-C

1500mA 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 $\pm 10\%$ 50/60Hz
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	15-37V
Max. Output Current	1500mA
Min. Dimming Current	15mA
Output Power	55W
Line Regulation	$\pm 3\%$
Load Regulation	$\pm 5\%$
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/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:

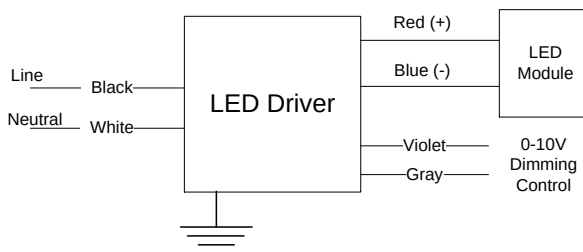
UL 8750 & CSA 250.13-12
Class P

Ordering Information

Order Number	Description	Qty/Carton
D15CC55UNVTZ-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	1.500
99	1.485
98	1.471
97	1.456
96	1.441
95	1.426
94	1.411
93	1.397
92	1.382
91	1.367
90	1.352
89	1.337
88	1.323
87	1.308
86	1.293
85	1.278
84	1.263
83	1.248
82	1.233
81	1.218

Set Value	Output Current (A)
80	1.203
79	1.188
78	1.174
77	1.159
76	1.144
75	1.129
74	1.114
73	1.099
72	1.084
71	1.069
70	1.054
69	1.039
68	1.024
67	1.009
66	0.994
65	0.979
64	0.964
63	0.949
62	0.934
61	0.919

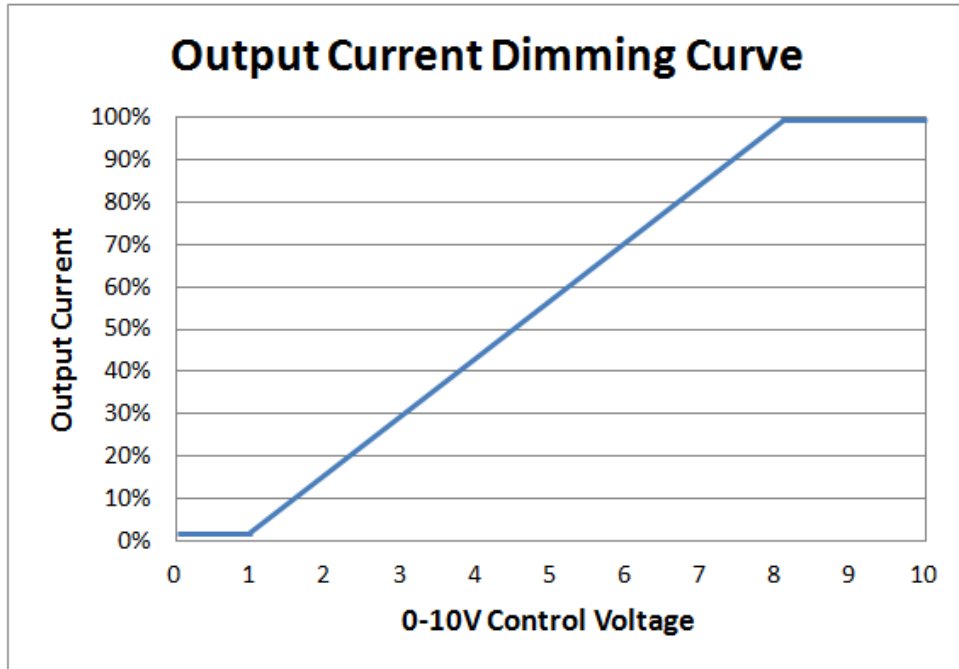
Set Value	Output Current (A)
60	0.904
59	0.890
58	0.875
57	0.860
56	0.845
55	0.830
54	0.815
53	0.800
52	0.785
51	0.770
50	0.755
49	0.741
48	0.726
47	0.711
46	0.696
45	0.681
44	0.666
43	0.652
42	0.637
41	0.622
40	0.607



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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.

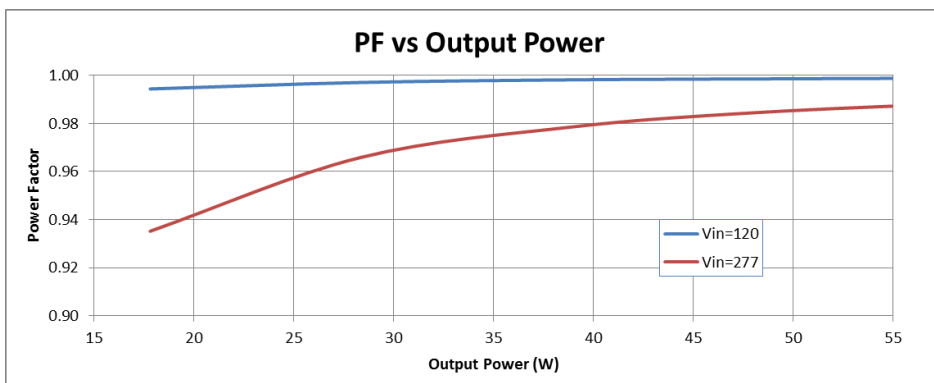
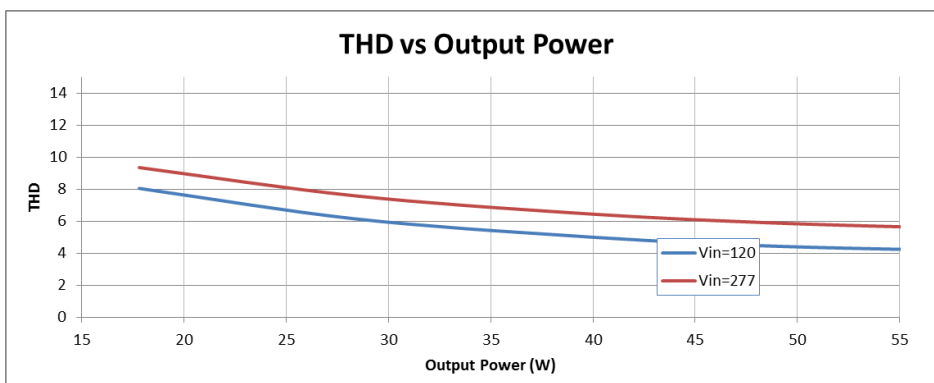
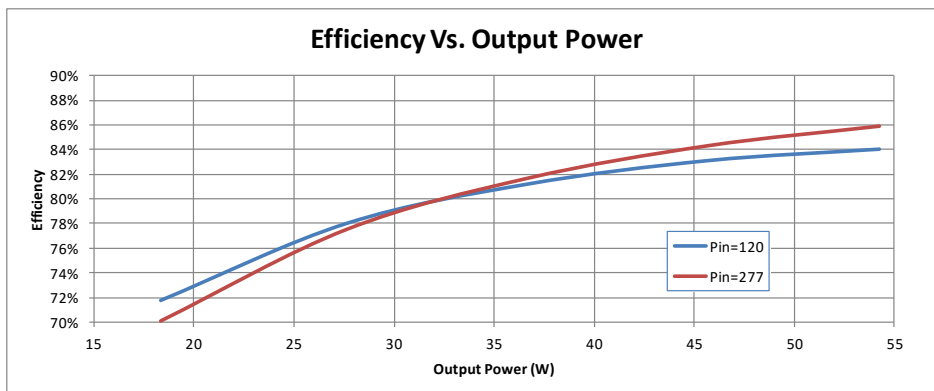
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Performance: Efficiency, THD, & Power Factor

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



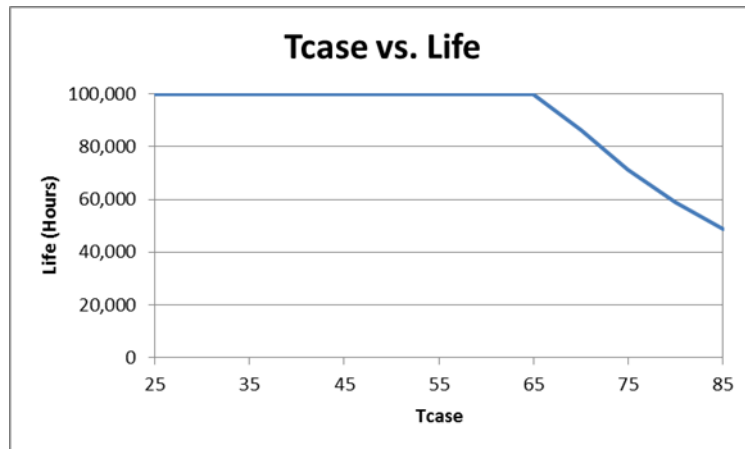
Output power based on maximum rated output current and varying load voltages.



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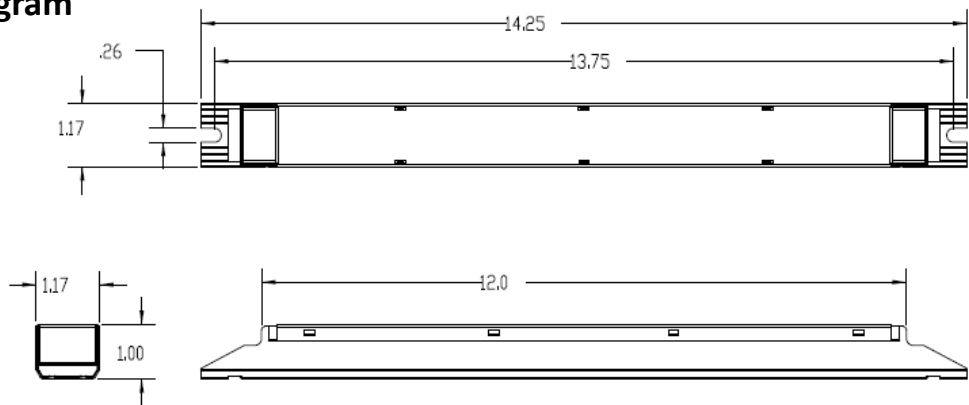


Life vs. Driver Tcase



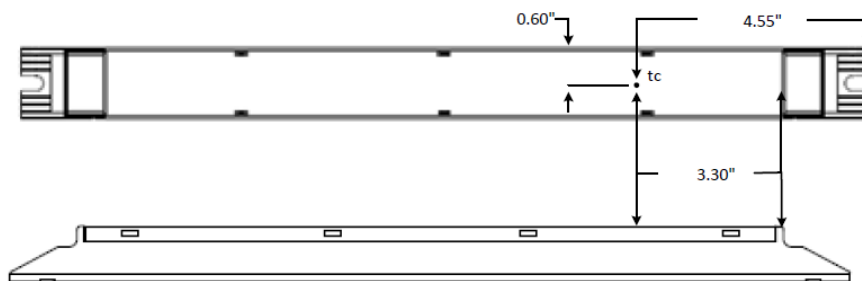
The Data curve provided predicts the LED Driver life based on the case temperature measured at the Tc location identified on the label or specification sheet. The Telecordia SR-332 standard is used to generate the prediction curves.

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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