Phase Out – Not for use in New Designs

D10CC55UNVT-C

UNV Dimmable LED Driver w/ Tuning

- 1050mA Constant Current Output
- Class 2, 55W Output
- 0-10V Dimming Control

Performance	
Input Voltage	120 ~ 277 Vac
Input Current Max	0.52 /120V 0.22/277V
Input Power Max	63W
Input Frequency	50 - 60 (Hz)
Power Factor	> 0.95
THD max	< 20 %
Output Voltage	19-53V
Output Current	32mA - 1050mA
Output Power	55W
Line Regulation	±3 %
Load Regulation	±5 %
Output Current Ripple	<10% (Pk-Pk/avg)
Inrush Current Peak / >50% Duration	120V: 12.5A / 240uS 277V: 20A / 570uS

- Inrush current complies with NEMA 410

* Refer to charts for additional information

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

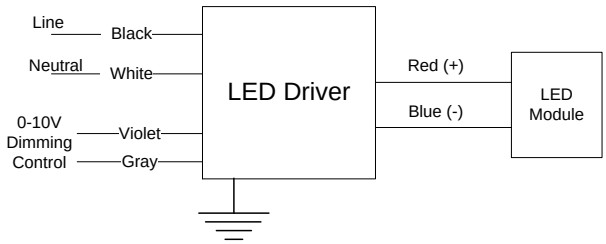
Over voltage, Under voltage, short circuit, and over temp.

Safety:

UL 8750 & CSA 250.13-12

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

Wiring Diagram:

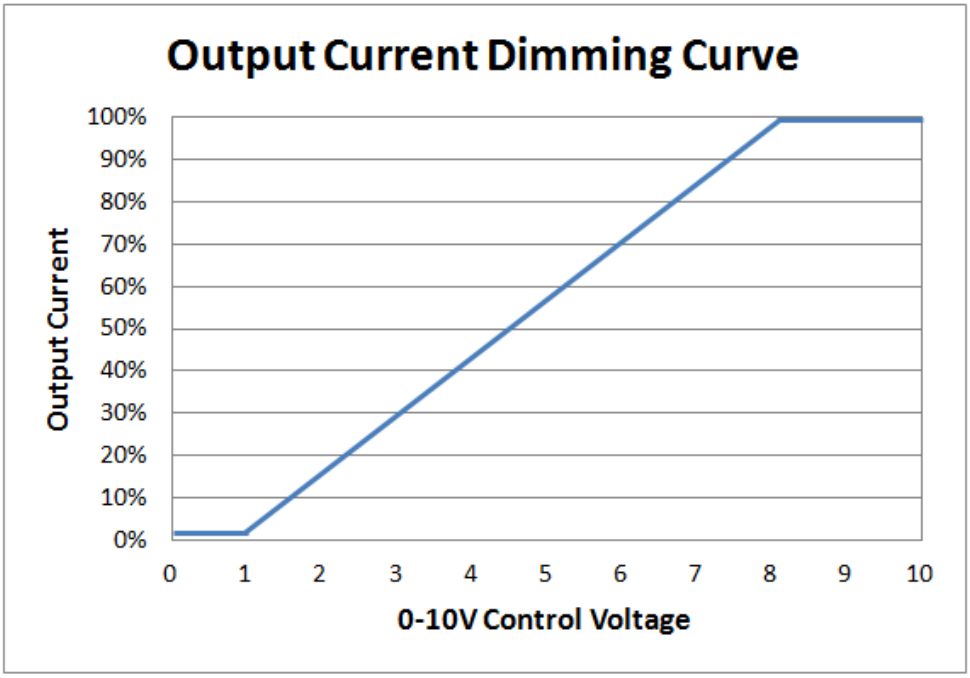


Programmable Tuned Output Settings

- 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 LDTC01A 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 ± 5%.
- Refer to application note EVD06 at www.unvlt.com for additional information.

SET Value	Output Current (A)	SET Value	Output Current (A)	SET Value	Output Current (A)
00	1.050	80	0.784	60	0.550
99	1.036	79	0.772	59	0.539
98	1.022	78	0.759	58	0.528
97	1.008	77	0.747	57	0.518
96	0.994	76	0.735	56	0.507
95	0.981	75	0.723	55	0.497
94	0.967	74	0.710	54	0.486
93	0.953	73	0.698	53	0.476
92	0.940	72	0.687	52	0.465
91	0.926	71	0.675	51	0.455
90	0.913	70	0.663	50	0.445
89	0.900	69	0.651	49	0.435
88	0.887	68	0.640	48	0.425
87	0.873	67	0.628	47	0.415
86	0.860	66	0.617	46	0.405
85	0.848	65	0.606	45	0.396
84	0.835	64	0.594	44	0.386
83	0.822	63	0.583	43	0.376
82	0.809	62	0.572	42	0.367
81	0.797	61	0.561	41	0.357
				40	0.348

0-10V Dimming

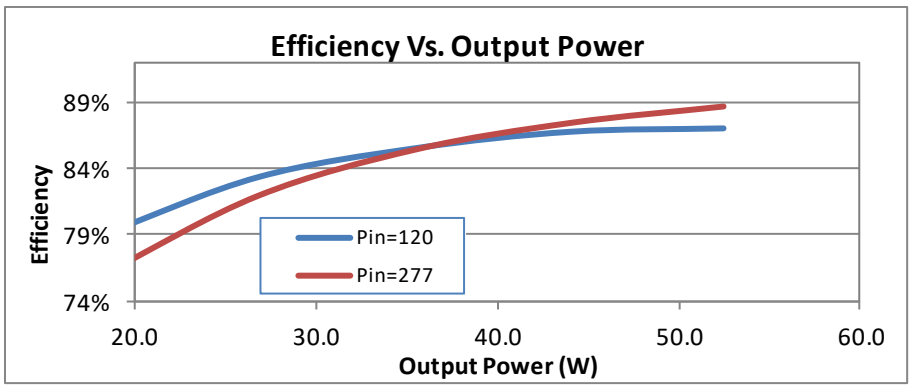


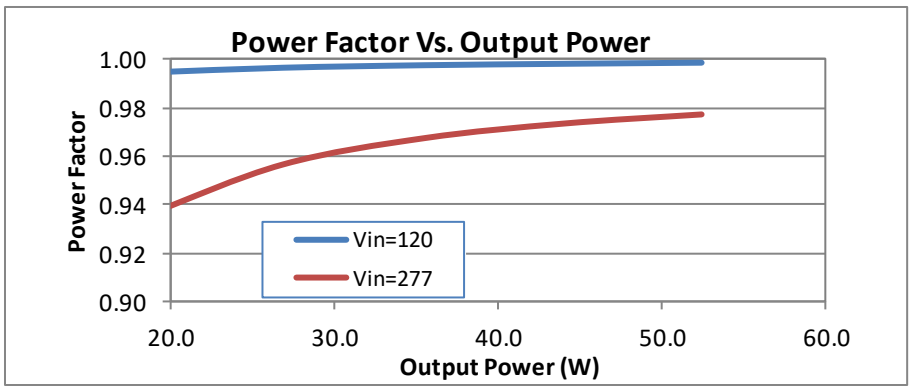
0-10V Analog Dimming Interface

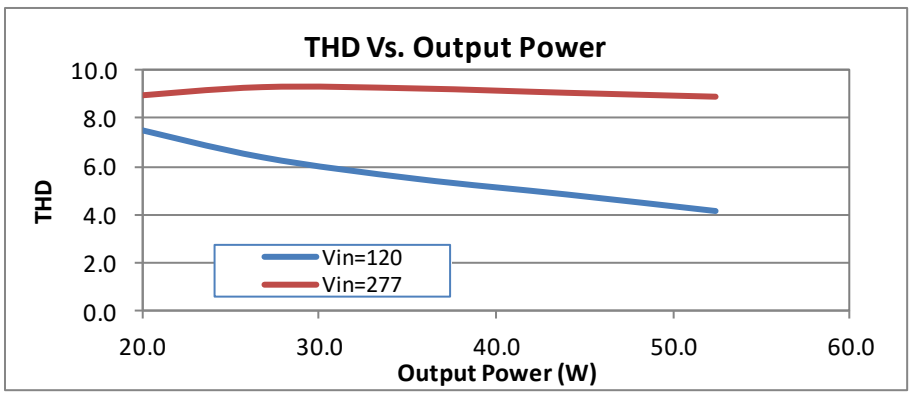
- Analog 0 to 10 vDC Voltage Control
- Use Violet (+) & Gray (-) for connection to 0-10vDC.
- 10v = maximum output, 0v = minimum output
- Wiring Violet & Gray together provides min. light output.
- Capping Violet & Gray separately provides 100% light output.
- 0-10V interface can be wired as Class 1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

Performance: Efficiency, THD, & Power Factor

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

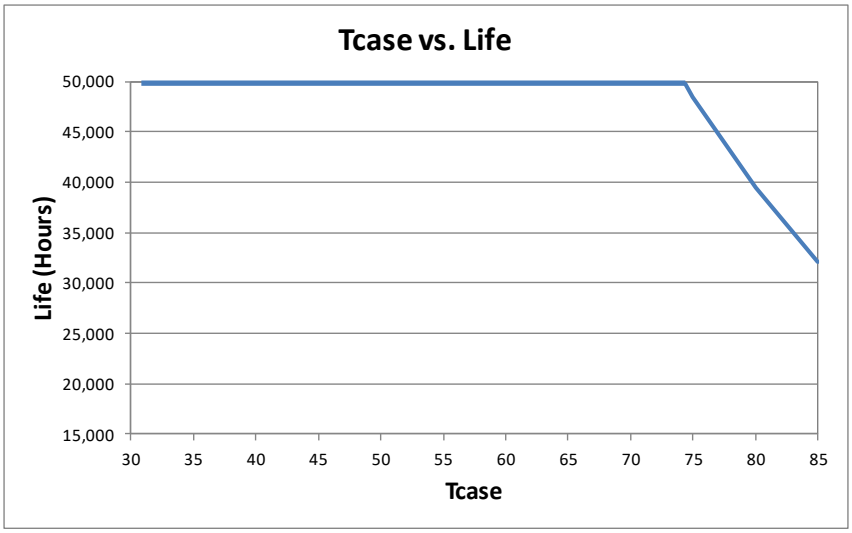






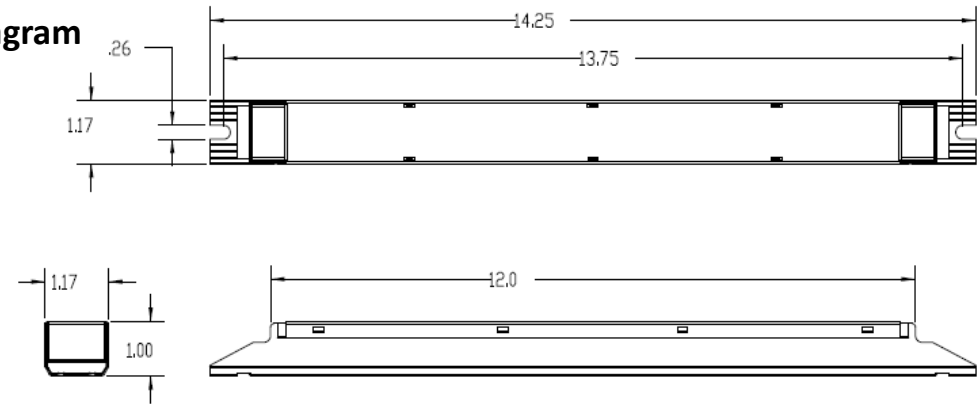
Output power based on maximum rated output current and varying load voltages.

Life vs. Driver Tcase

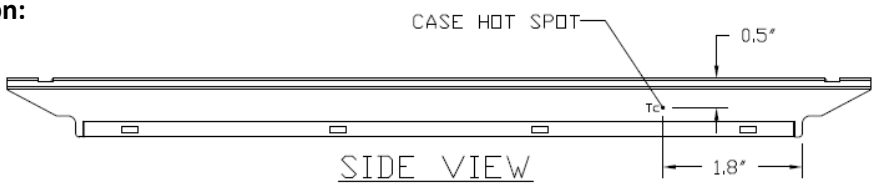


The Data curve provided predicts the LED Driver life based on the case temperature measured at the Tc location identified on the label or specification sheet. The Telecordia SR-332 standard is used to generate the prediction curves.

Dimensional Diagram



Tc Location:



Output Side

Conditions of Acceptability –

1.The drivers shall be installed in compliance with the applicable requirements of the end-product standard for, mounting, spacing, casualty and segregation.
2.The maximum available output parameters of the LED output were within the maximum allowable limits for Class 2, inherently limited as specified in the UL 1310 standard for Class 2 Power Units.
3.The Drivers are suitable for use in indoor "DRY" or "DAMP" locations.
4.These units were evaluated for use at a maximum case temperature in an elevated ambient as shown in the table below. See ILL. 1 for the Tc location on the units:

Model	Max Case Temp (Tc)	Ambient
D10CC55UNVT-C	85°C	61°C

These units should not exceed the maximum case temperature as tabulated above when the driver is installed and operated in the end-use application.
5.The Leakage Current measurements were not performed on this unit. Compliance with leakage current requirements shall be determined in the end-product standard." And, leakage current available from output leads shall be considered.
6.The case must be grounded in the end use.
7.Driver Models D10CC55UNVT-C and D10CC55UNVA-C each employs a 53 VDC rated output that complies with the definition of Class 2 per the Canadian Electrical code. However, the output and the associated circuit/circuits cannot be user accessible based on maximum voltage restrictions for Class 2 circuits in the Canadian Electrical Code.
8.The circuit connected to the dimming control terminals for models D10CC55UNVT-C and D15CC55UNVT-C is isolated from the primary and secondary circuitry and have maximum available output parameters that operate within the maximum allowable limits for Class 2, inherently limited as specified in the UL 1310 standard for Class 2 Power Units. The dimming control circuit for models D10CC55UNVT-C and D15CC55UNVT-C are suitable for Class 1 or Class 2 wiring methods.

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.