Phase Out – Not for use in New Designs

D21CC80UNVTW-D

2100mA LED Driver w/ Constant Power Tuning

- Universal (120-277V) Input Voltage
- Class 2, 80W Constant Current Output
- 0-10V Dimming to 1%

Performance	
Input Voltage	120 ~ 277 Vac
Input Current Max	0.77 /120V 0.33/277V
Input Power Max	93W
Input Frequency	50 - 60 (Hz)
Power Factor*	> 0.95
THD max*	< 20 %
Output Voltage (See Power Curve Chart)	17V to 38V @ 2.1Amps 17V to 56V @ 1.4Amps
Max. Output Current	2100mA
Min Dimming Current	35mA
Output Power	80W
Line Regulation	±3 %
Load Regulation	±5 %
Output Current Ripple	<10% (Pk-Pk/avg)
Inrush Current Peak / >50% Duration	120V: 18A / 65uS 277V: 32A / 30uS

* 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	16.88 in (428.7 mm)
Width	1.25 in (31.8 mm)
Height	1.00 in (25.4 mm)
Mounting Length	16.28 in (413.5 mm)
Weight (lbs)	1.25
Wire Trap / Plug-in Connectors for 18 AWG Solid Wire	

Protection:

Short Circuit and Open Circuit

Safety:

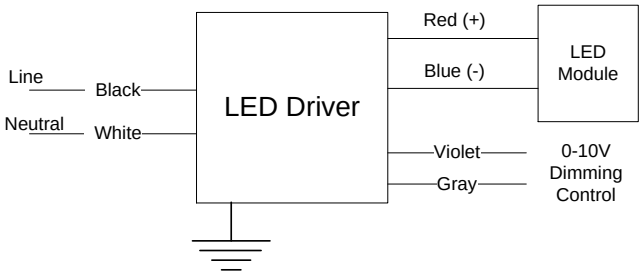
UL 8750 & CSA 250.13
Class P

Ordering Information

Order Number	Description	Qty/Carton
D21CC80UNVTW-DN0C	Standard Product	10

*Consult Factory for Tuning ordering information

Wiring Diagram:



c UL us LISTED LED DRIVER

RoHS COMPLIANT

EVERLINE

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

Programmable Tuned Output Settings

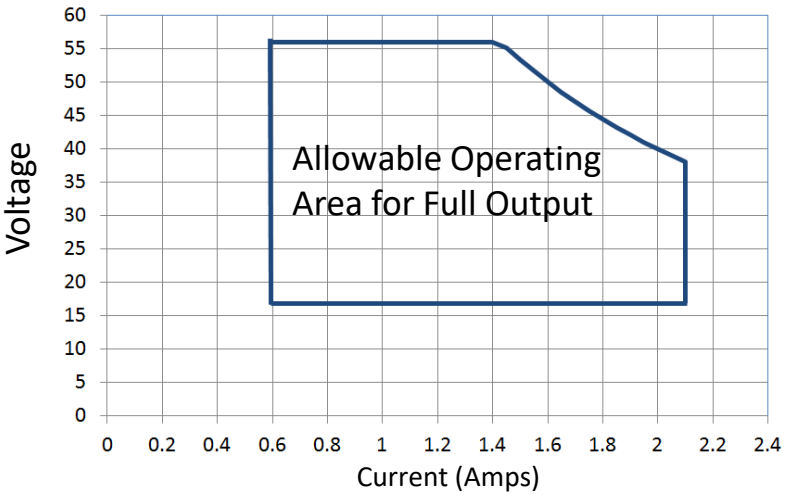
- This Everline LED Driver can be configured to set its current output to a selected fraction of their maximum rated design level. This function is called tuning (or also high-end trim) and it can be implemented with the LDTC01A using the Selector rotary switches. Tuning assignments are stored in driver 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.
- Refer to application note EVD06 at www.unvlt.com for additional information.

Set Value	Output Current (A)
100	2.100
99	2.080
98	2.059
97	2.039
96	2.018
95	1.997
94	1.976
93	1.955
92	1.934
91	1.913
90	1.892
89	1.871
88	1.850
87	1.829
86	1.808
85	1.787
84	1.766
83	1.745
82	1.723
81	1.702

Set Value	Output Current (A)
80	1.681
79	1.660
78	1.638
77	1.617
76	1.596
75	1.574
74	1.553
73	1.532
72	1.510
71	1.489
70	1.467
69	1.446
68	1.425
67	1.403
66	1.382
65	1.360
64	1.339
63	1.318
62	1.296
61	1.275

Set Value	Output Current (A)
60	1.253
59	1.232
58	1.211
57	1.189
56	1.168
55	1.147
54	1.125
53	1.104
52	1.083
51	1.062
50	1.041
49	1.019
48	0.998
47	0.977
46	0.956
45	0.935
44	0.914
43	0.893
42	0.872
41	0.851
40	0.830

Constant Power Operating Voltage-Current Operating Range



For points along the curve:

* Maximum output current will not exceed 2.1A.
* Maximum output voltage will not exceed 56V.
* Output power (Volts x Amps) will not exceed 80W.

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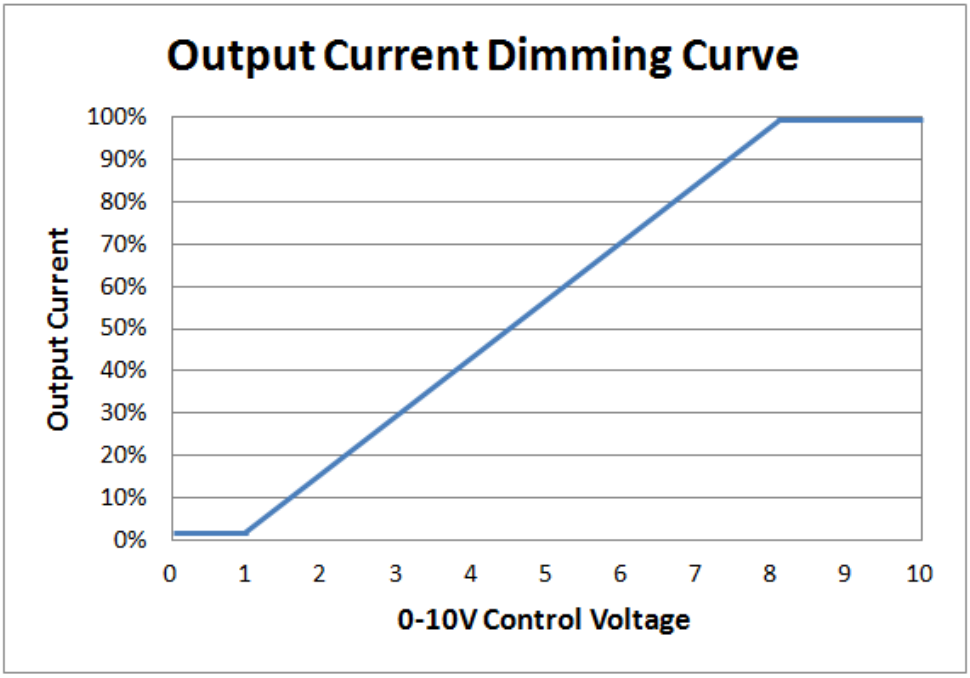
0-10V Dimming

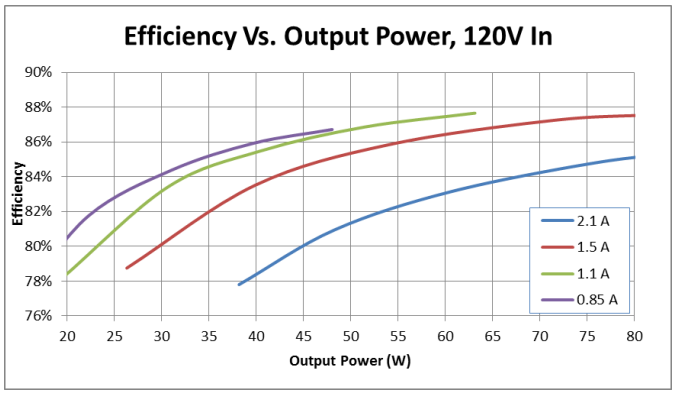


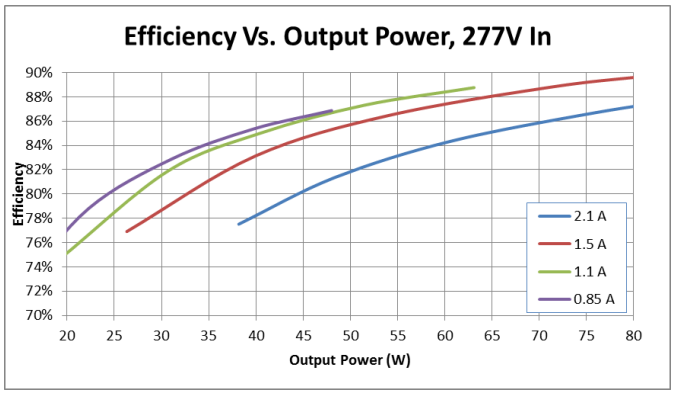
0-10V Analog Dimming Interface

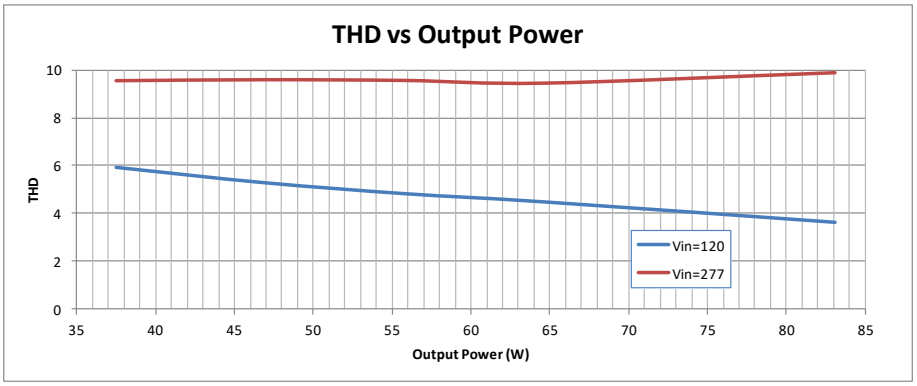
- Analog 0 to 10 vDC Voltage Control
- Use Violet (+) & Gray (-) for connection to 0-10vDC.
- 10v = maximum output, 0v = minimum output
- Wiring Violet & Gray together provides min. light output.
- Capping Violet & Gray separately provides 100% light output.
- 0-10V interface must be wired as a Class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

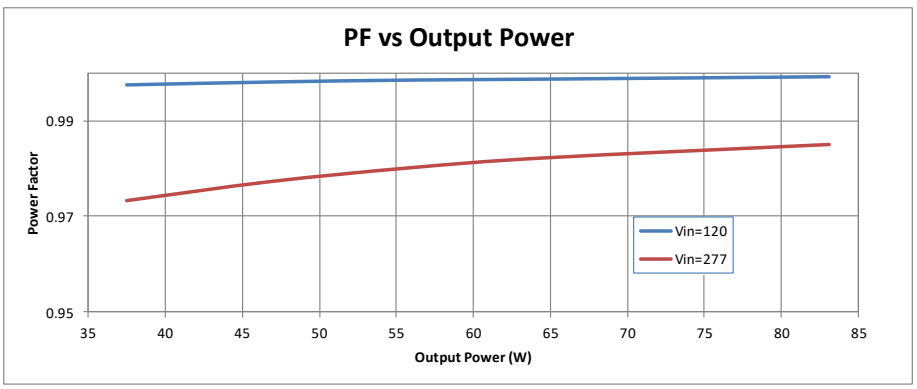
Performance: Efficiency, THD, & Power Factor

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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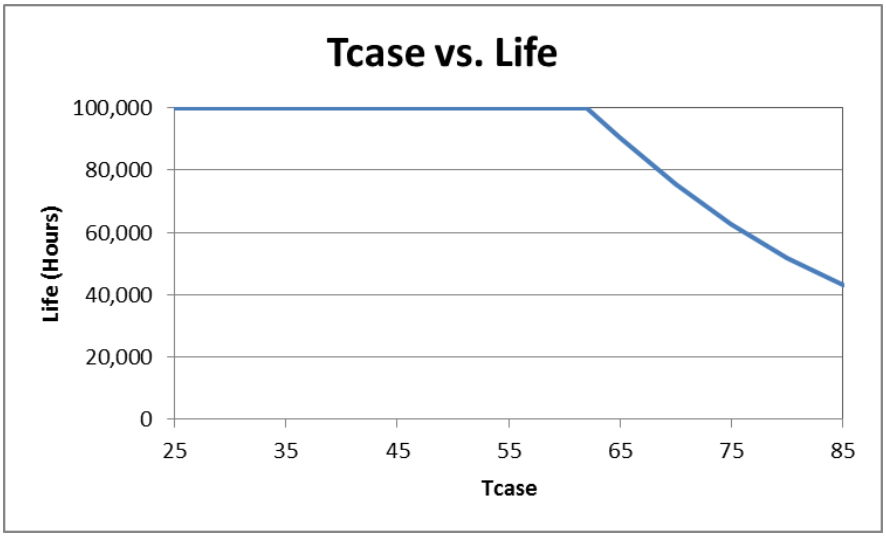
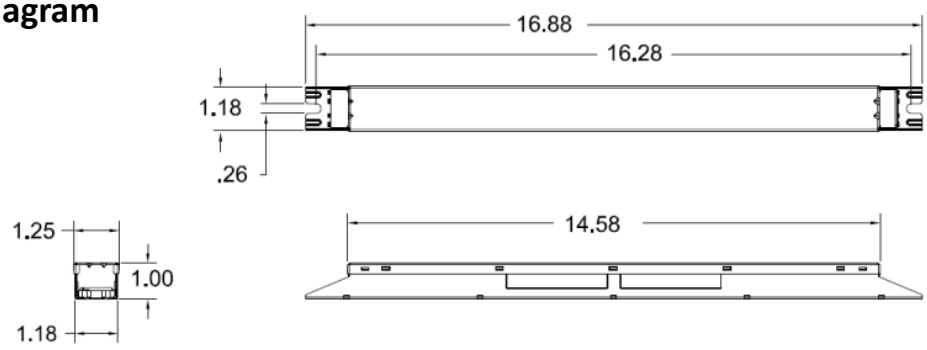
Life vs. Driver Tcase

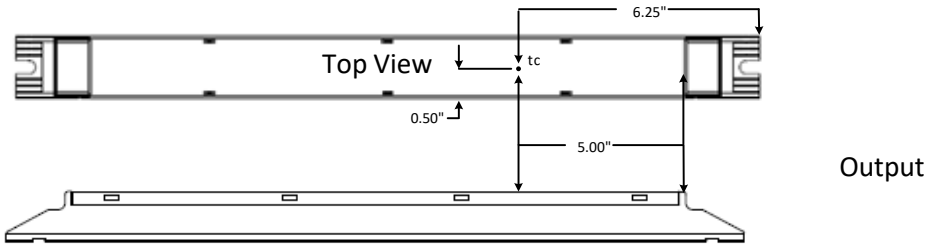


The Data curve provided predicts the LED Driver life based on the case temperature measured at the Tc location identified on the label or specification sheet. The Telecordia SR-332 standard is used to generate the prediction curves.

Dimensional Diagram



Tc Location:



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.