



D530C150HVT-F



530mA LED Driver w/ Tuning

- High Range Input Voltage 347 – 480 Vac
- 0-10V Dimming to 10%
- Thermal Foldback Control

Performance

Input Voltage	347 ~ 480 Vac ± 10%
Input Current Max	0.48 /347V 0.34/480V
Input Power Max	162W /347V 161W/480V
Input Frequency	50 - 60 (Hz)
Power Factor	> 0.95
THD max	< 20 %
Output Voltage	99V-285V
Output Current	530mA
Output Power	150W Max
Line Regulation	±1 %
Load Regulation	±3 %
Output Current Ripple	<10%
Inrush Current	347V: 59.2A / 97uS
Peak / >50% Duration	480V: 74A / 79uS

* 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
Minimum Operating Temperature	-40°C (-40°F)
Storage Temperature	-40°C to 85°C
tc	85°C (185°F) max
Location Rating	UL Dry & Damp, Type HL
Transient Protection	IEEE C62.41 6kV**

**Driver uses MOVs for transient protection.

Refer to application note EVD07 at www.unvlt.com for additional information on Hi-Pot Testing.

Physical

Length	9.50 in (241.3 mm)
Width	2.40 in (61.0 mm)
Height	1.55 in (39.4 mm)
Mounting Length	8.89 in (225.8 mm)
Weight (lbs)	2.6
Lead Lengths	
Blk, Wht, Blk/Wht, Blu/Wht	11.5 +/- 1.0 in
Red(+), Blue(-), Gry, Prp	11.5 +/- 1.0 in

Lead-wires are 18 AWG 105°C /600V solid copper.

Protection

Over voltage, Overload and short circuit, over temp.

Safety:

UL 8750 & CSA 250.13

UL Class P

Ordering Information

Order Number	Description	Qty/Carton
D530C150HVT-F20KC	Standard Product	10
D530C150HVT-FR00C	Rated IP66	10

*Consult Factory for Tuning ordering information

Wiring Diagram:



- **NOTE:** Unused Black/White and Blue/White leads must be individually capped off when thermal foldback control is not used.



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.
- Tuned output tolerance of $\pm 5\%$.
- Refer to application note EVD06 at www.unvlt.com for additional information.

Set Value	Output Current (A)
100	0.530
99	0.521
98	0.513
97	0.505
96	0.496
95	0.488
94	0.480
93	0.473
92	0.465
91	0.457
90	0.450
89	0.442
88	0.435
87	0.428
86	0.421
85	0.414
84	0.407
83	0.400
82	0.393
81	0.387

Set Value	Output Current (A)
80	0.380
79	0.374
78	0.367
77	0.361
76	0.355
75	0.349
74	0.343
73	0.337
72	0.331
71	0.325
70	0.319
69	0.313
68	0.308
67	0.302
66	0.296
65	0.291
64	0.286
63	0.280
62	0.275
61	0.269

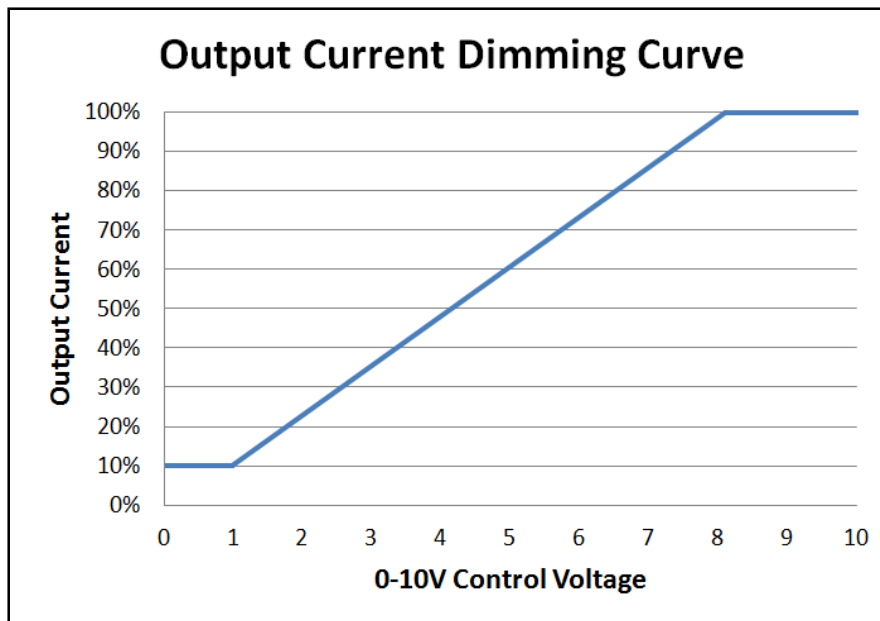
Set Value	Output Current (A)
60	0.264
59	0.259
58	0.254
57	0.248
56	0.243
55	0.238
54	0.233
53	0.228
52	0.223
51	0.218
50	0.213
49	0.208
48	0.203
47	0.198
46	0.193
45	0.188
44	0.183
43	0.178
42	0.173
41	0.168
40	0.163



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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 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.



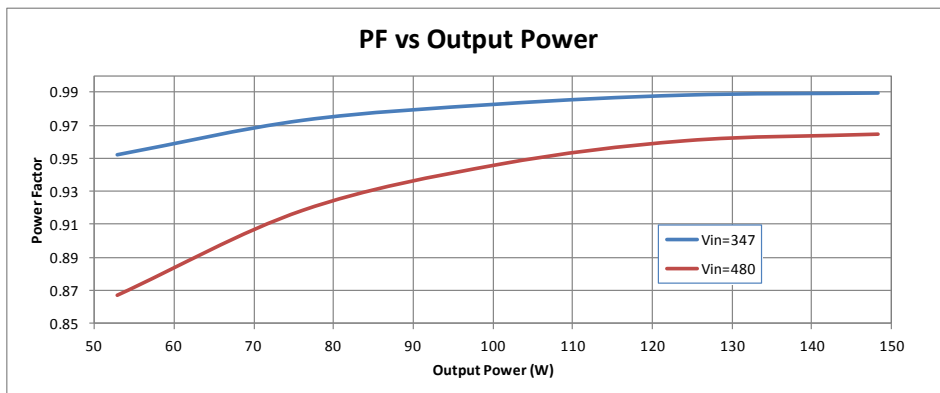
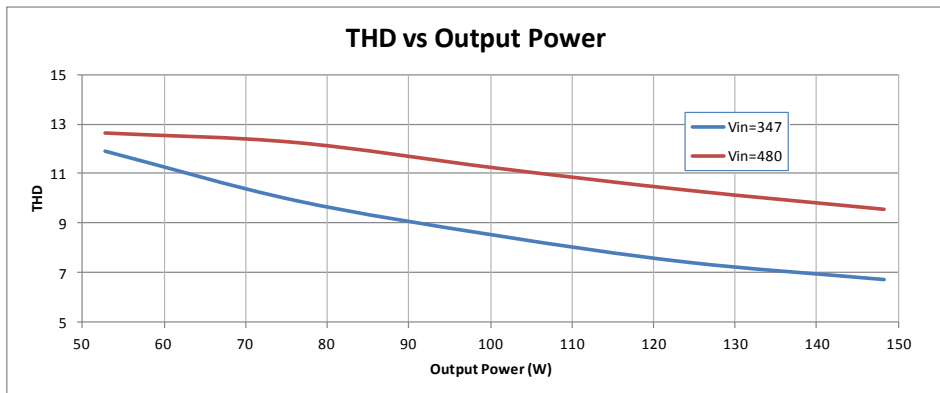
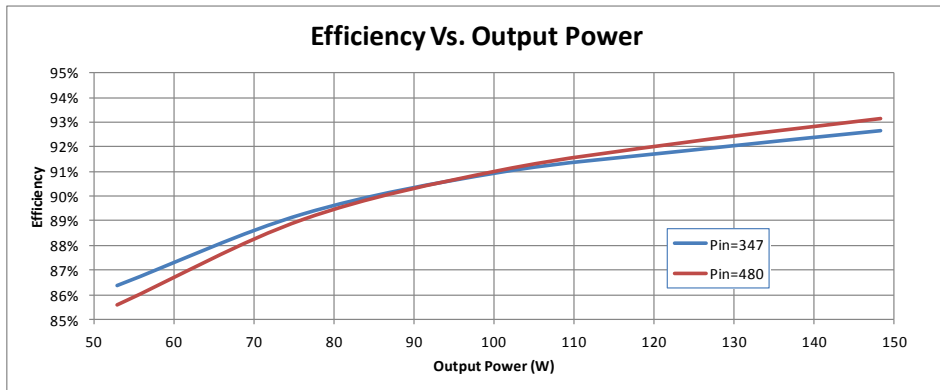
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Performance: Efficiency, THD, & Power Factor

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.



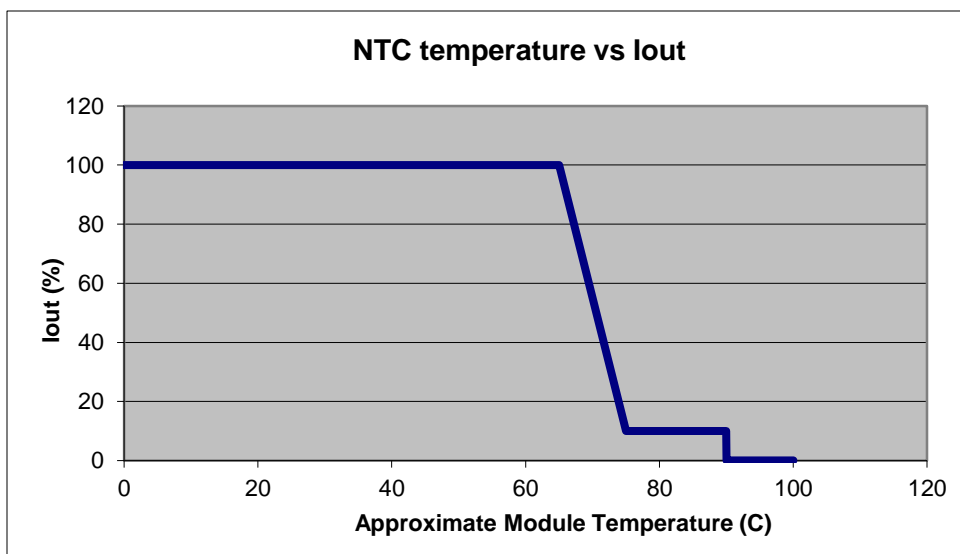
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Module Thermal Foldback Protection

Thermal Foldback Control

- Luminaire temperature monitoring/protection
- LED Driver reduces output current for external thermal protection if an NTC (Negative Thermal Coefficient) is connected to the Black/White and Blue/White leads.
- **NOTE:** Unused Black/White and Blue/White leads must be individually capped off when thermal foldback control is not used.
- See application note on www.unvlt.com for more information.



(Example with the Murata NTC p/n NCP18XV103J03RB)

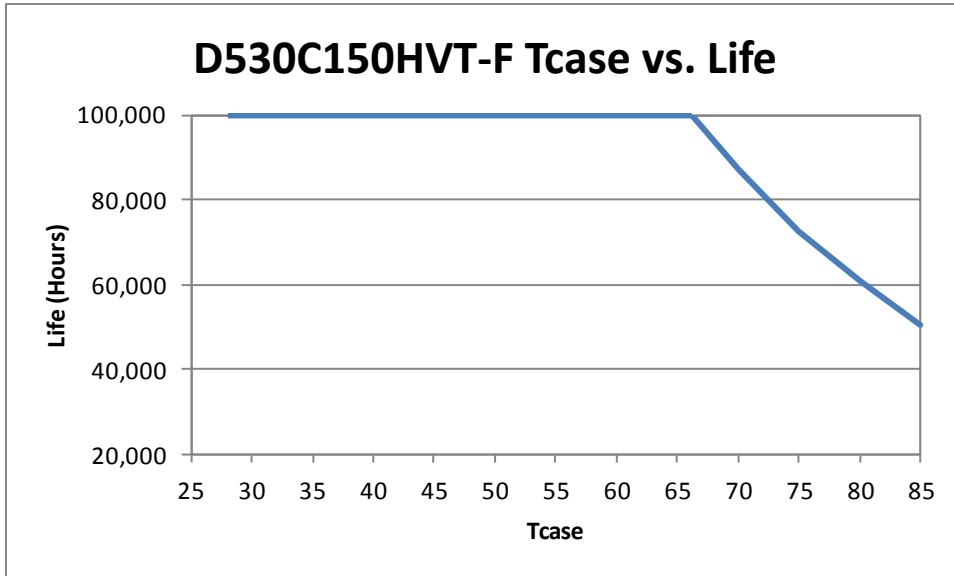


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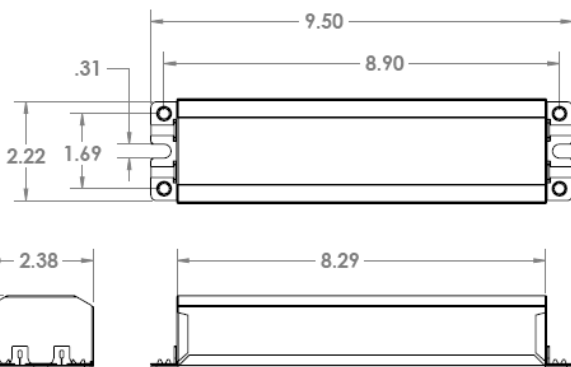
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Life vs. Driver Tcase

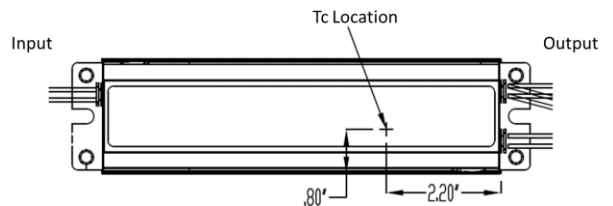


The Data curve provided predicts the LED Driver life based on the case temperature measured at the Tc location identified on the label or specification sheet. The Telecordia SR-332 standard is used to generate the prediction curves.

Dimensional Diagram



Tc Location



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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