Green Electrical Supply

maximize your green®

www.GreenElectricalSupply.com

D530C150HVT-F

530mA LED Driver

- High Range Input Voltage 347 – 480 Vac
- 0-10V Dimming w/ Programmable Tuning
- 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 Peak / >50% Duration	347V: 480V:

- Meets FCC Part 15 (Class A) Non-Consumer Limits
- Inrush current complies with NEMA 410

* Refer to charts for additional information

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

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	8 in
Red(+), Blue(-), Gry, Prp	8 in

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

Protection

Over voltage, Overload and short circuit, over temp.

Safety:

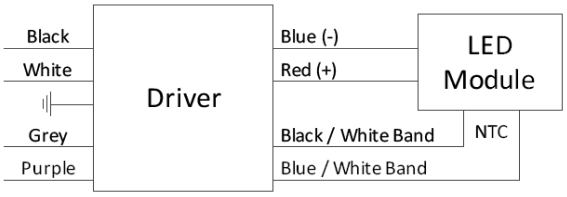
UL 8750 & CSA 250.13-12

Ordering Information

Order Number	Description	Qty/Carton
D530C150HVT-F06KC	Standard Product	10

*Consult Factory for Tuning ordering information

Wiring Diagram:



Programmable Tuned Output Settings

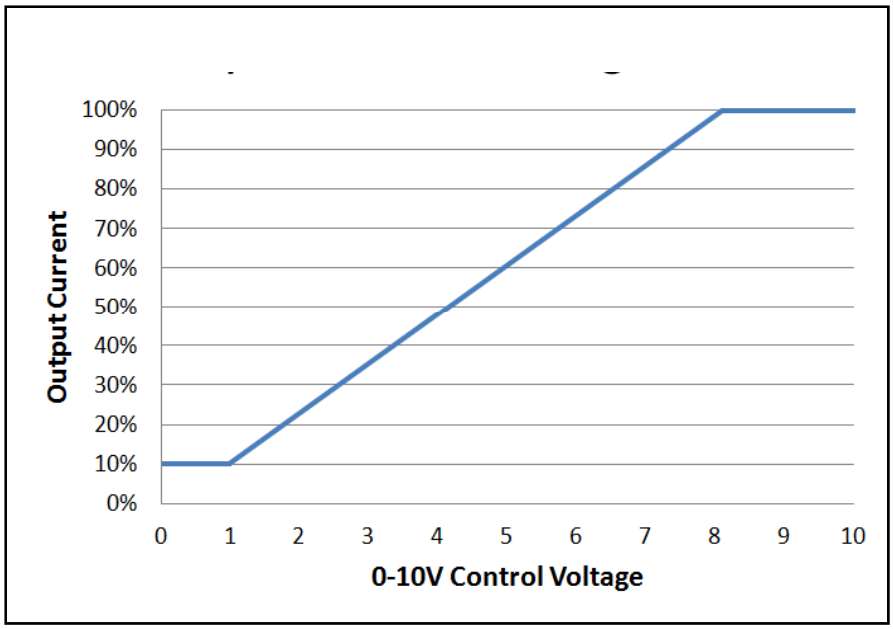
- This Everline LED Driver can be configured to set its current output to a selected fraction of their maximum rated design level. This function is called tuning (or also high-end trim) and it can be implemented with the LDTC01A using the Selector rotary switches. Tuning assignments are stored in driver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

0-10V Dimming

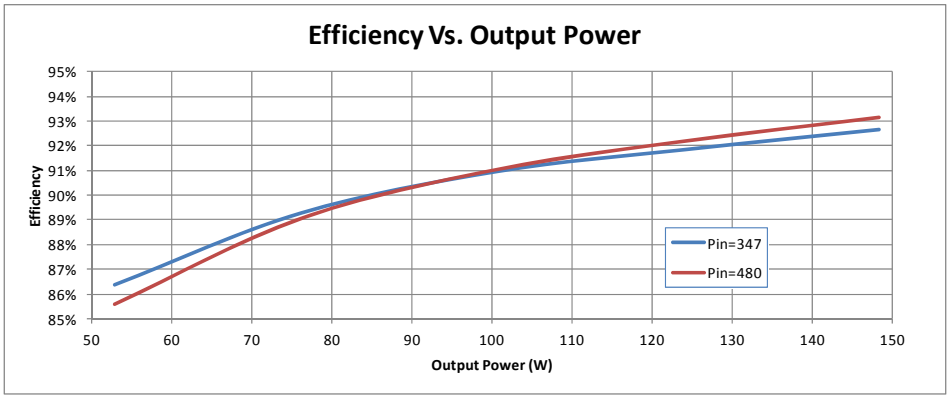


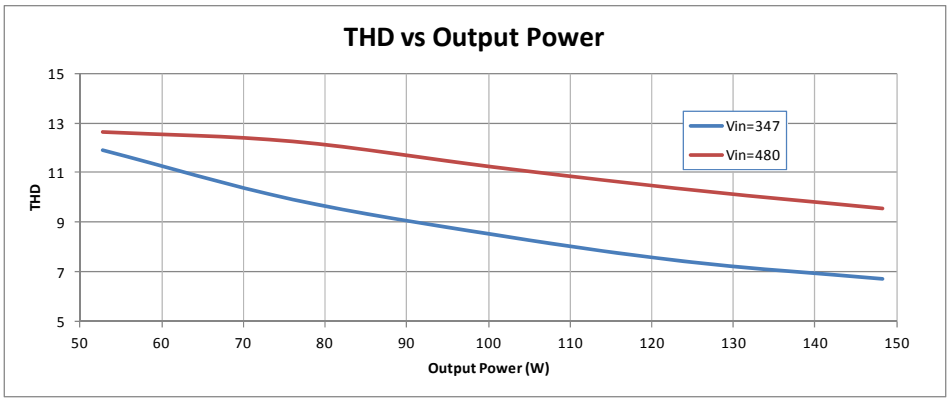
0-10V Analog Dimming Interface

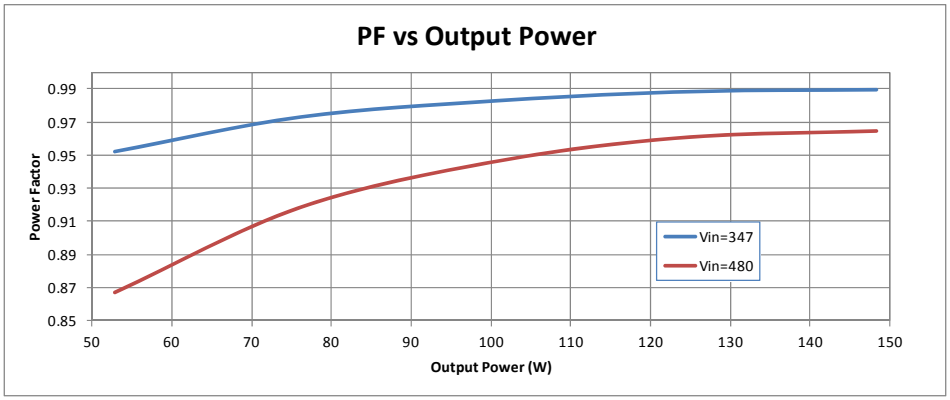
- Analog 0 to 10 vDC Voltage Control
- Use Violet (+) & Gray (-) for connection to 0-10vDC.
- 10v = maximum output, 0v = minimum output
- Wiring Violet & Gray together provides min. light output.
- Capping Violet & Gray separately provides 100% light output.
- 0-10V interface can be wired as Class 1 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.

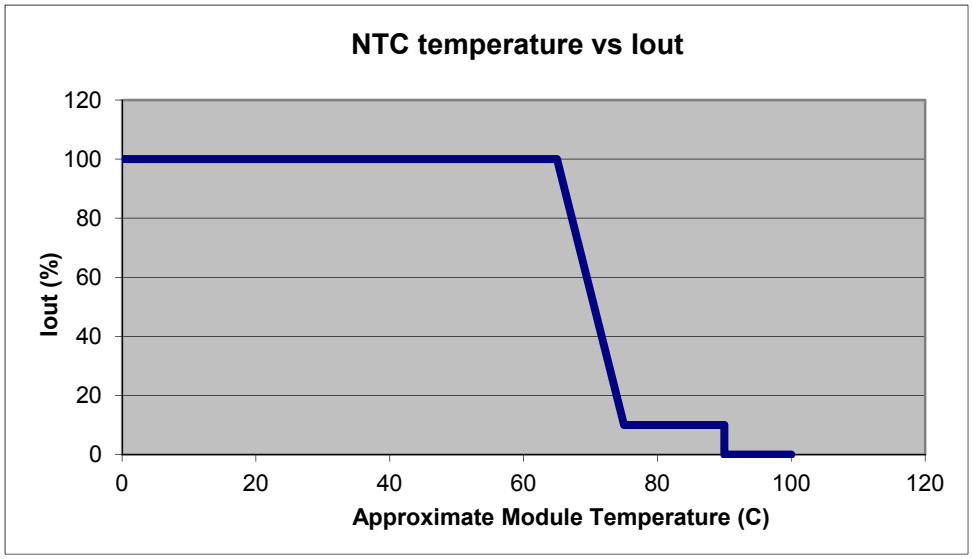
Application and operation performance specification information subject to change without notification.

Module Thermal Foldback Protection

Thermal Foldback Control

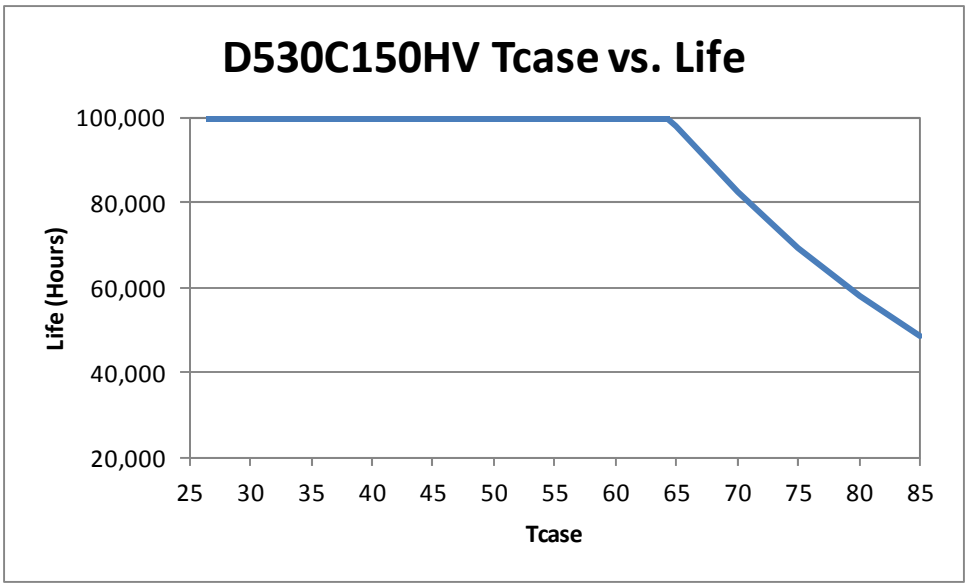
Luminaire temperature monitoring/protection
LED Driver reduces output current for external thermal protection if an NTC (Negative Thermal Coefficient) is connected to the Black/White and Blue/White leads.
Connect unused Black/White and Blue/White leads. together when thermal foldback control is not used.

• See application note on www.unvlt.com for more information.



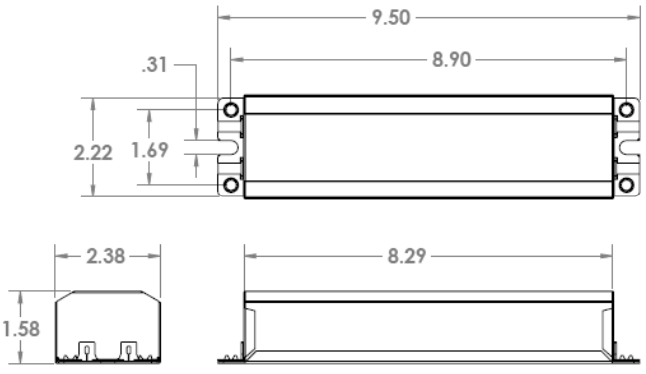
(Example with the Murata NTC p/n NCP18XV103J03RB)

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 is indicated on the product label unless otherwise noted.

13

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 Drivers are suitable for use in "DRY" or "DAMP" locations.
3. The maximum available parameters from the isolated dimming connection leads (0-10 V) were within the maximum allowable limits for Class 2, inherently limited as specified in the UL 1310 standard for Class 2 Power Units, and CAN/CSA C22.2 No. 223 standard for Power Supplies with Extra-Low Voltage Class 2 Outputs.
4. When the drivers are installed in the end-use application, the maximum measured temperature at the "Tc" location indicated on the Marking Label, shall not exceed the specified temperatures in the following table:

Model	Max Case Temp (°C)		
	tc	Ambient @ 347 Input Voltage Rating	Ambient @ 480 Input Voltage Rating
D530C150HVT-F	85°C	57°C	59°C

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 "User Accessible" dimming circuit shall be considered.
6. The leads for the connection of the primary (Black-White), the output (Red-Blue), the dimming circuit, and the Temperature sense circuit are R/C (AVLV2/8), 18 AWG, 600 V minimum, 90ºC. The suitability of the leads shall be determined in the end-use application.
7. The thickness of the sheet steel used for the housing of the drivers is 0.51 mm. However, the housing was subjected to the "MECHANICAL STRENGTH FOR METAL ENCLOSURES TEST" specified in section 8.13 of UL8750 standard and the results of the test were in compliance.
8. These drivers may be provided with an optional temperature sense circuit (Black/White and Blue/White Leads). These leads are intended for connection to LED Array modules provided with temperature sensing circuits for the purpose of dimming the output to levels in accordance to the detected excessive temperature.
9. The temperature sense circuit is considered to be an extension of the secondary circuit and suitability and the reliability of the function of the temperature sense circuit shall be determined in the end-use application.

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.

EVERLINE