D700C150HVT-F

700mA 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	165 /347V 164/480V
Input Frequency	50 - 60 (Hz)
Power Factor	> 0.95
THD max	< 20 %
Output Voltage	75V-215V
Output Current	70-700mA
Output Power	150W Max
Line Regulation	±1 %
Load Regulation	±3 %
Output Current Ripple	<10%
Inrush Current Peak / >50% Duration	347V: 59.2A / 97uS 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 (-40°F to 185°F)
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
D700C150HVT-F20KC	Standard Product	10
D700C150HVT-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 ± 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)
100	0.700	80	0.555	60	0.414
99	0.693	79	0.548	59	0.407
98	0.685	78	0.541	58	0.400
97	0.678	77	0.534	57	0.393
96	0.671	76	0.527	56	0.386
95	0.663	75	0.519	55	0.379
94	0.656	74	0.512	54	0.372
93	0.649	73	0.505	53	0.366
92	0.641	72	0.498	52	0.359
91	0.634	71	0.491	51	0.352
90	0.627	70	0.484	50	0.345
89	0.620	69	0.477	49	0.338
88	0.612	68	0.470	48	0.331
87	0.605	67	0.463	47	0.324
86	0.598	66	0.456	46	0.317
85	0.591	65	0.449	45	0.310
84	0.584	64	0.442	44	0.303
83	0.576	63	0.435	43	0.296
82	0.569	62	0.428	42	0.290
81	0.562	61	0.421	41	0.283
				40	0.276

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0-10V Dimming
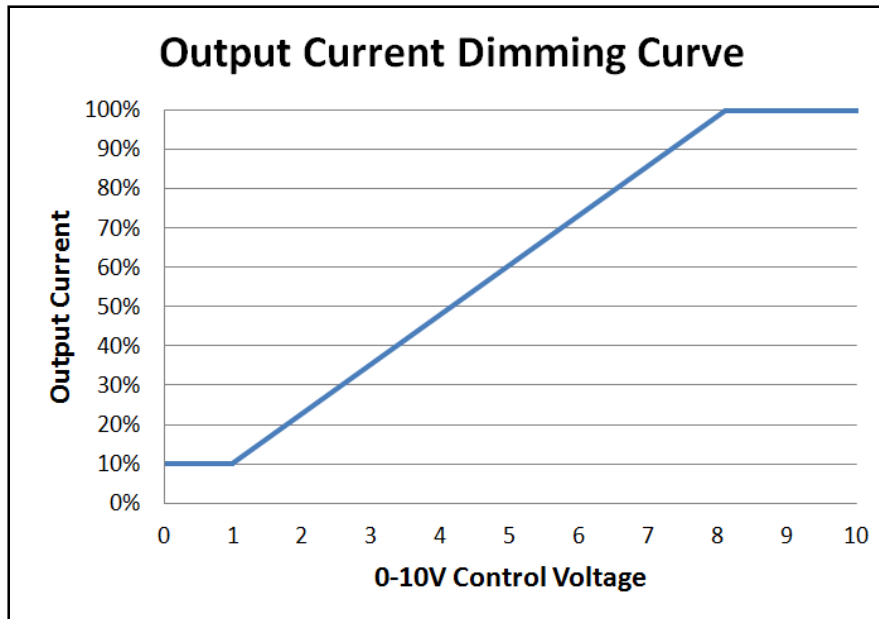
0-10V Analog Dimming Interface
• Analog 0 to 10 vDC Voltage Control
• Use Violet (+) & Gray (-) for connection to 0-10vDC.
• 10v = maximum output, 0v = minimum output
• Wiring Violet & Gray together provides min. light output.
• Capping Violet & Gray separately provides 100% light output.
• 0-10V interface 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.
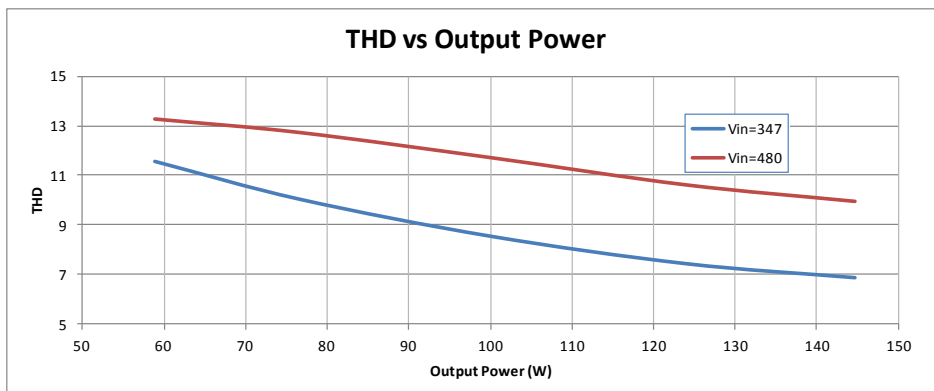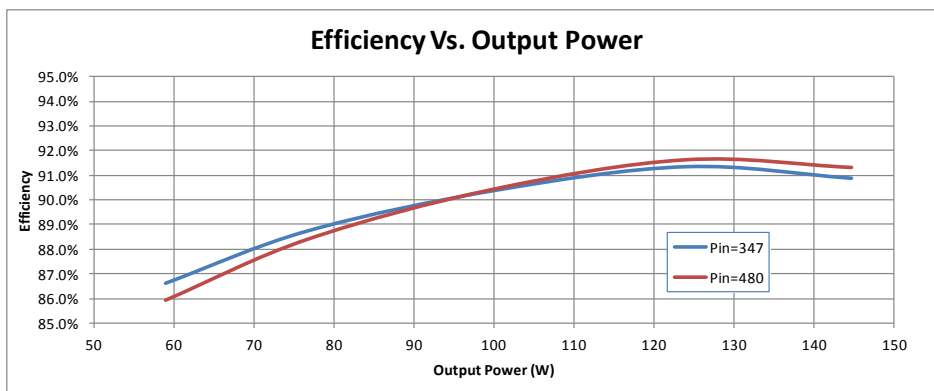
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Performance: Efficiency, THD, & Power Factor

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

Efficiency Vs. Output Power

THD vs Output Power
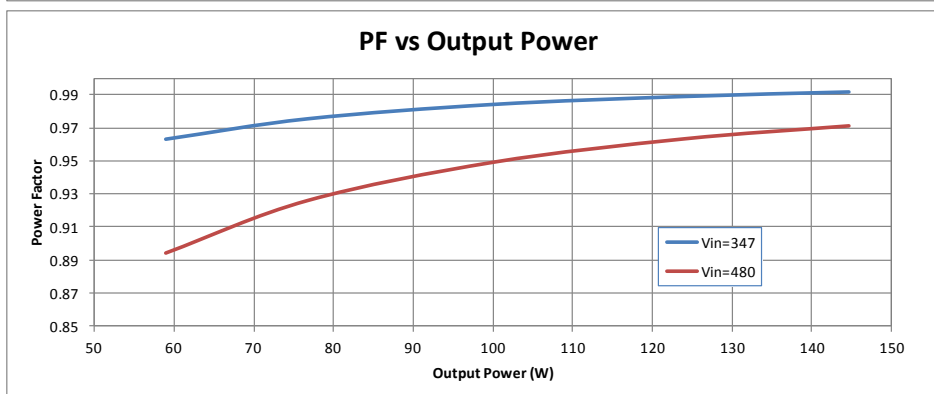
PF vs Output Power

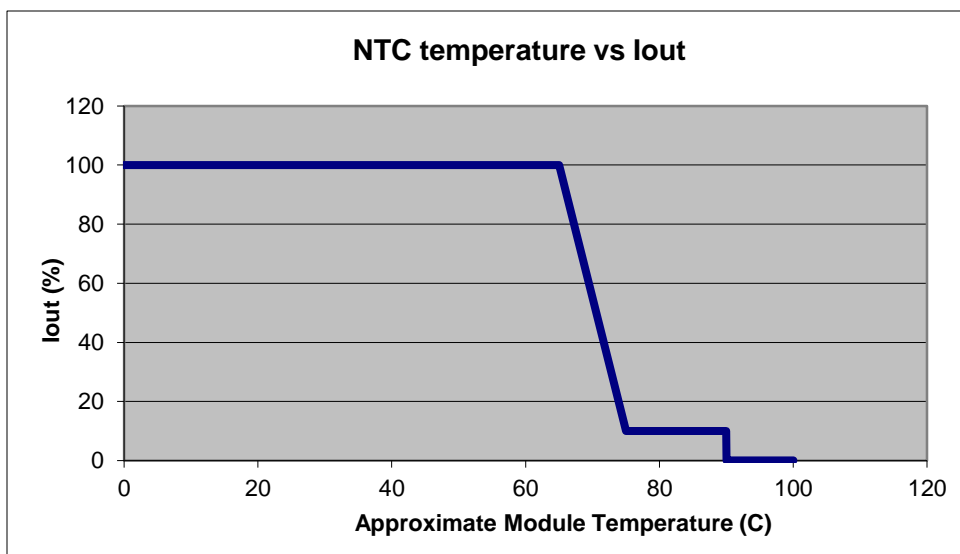Output power based on maximum rated output current and varying load voltages.

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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.

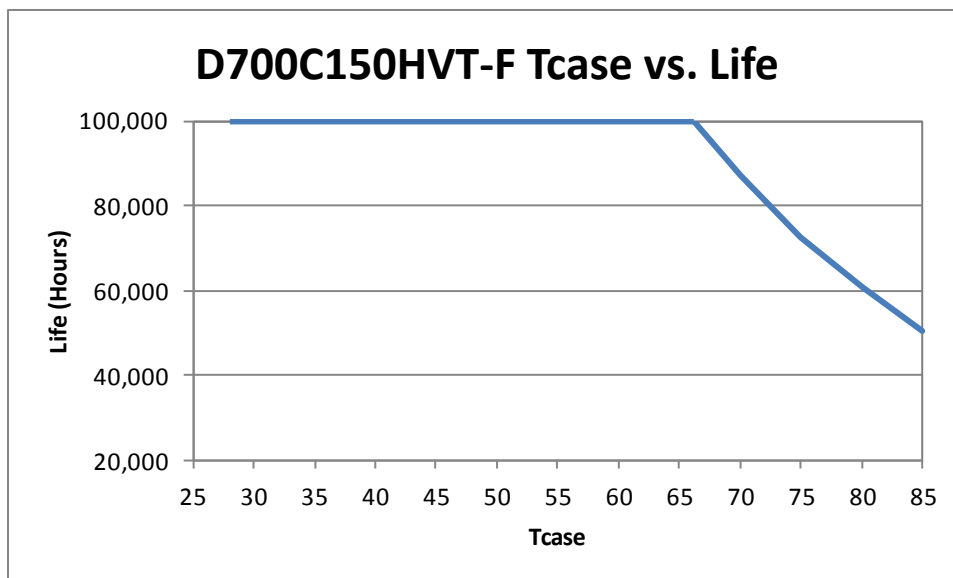(Example with the Murata NTC p/n NCP18XV103J03RB)

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Life vs. Driver Tcase
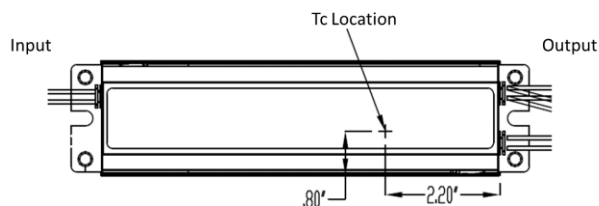
D700C150HVT-F Tcase vs. Life

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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