



D700C120UVT-Vx



700mA LED Driver

- 120W Output
- 0-10V Dimming w/ Tunable Output
- 12V Power source for Active cooling device
- Thermal Foldback Control

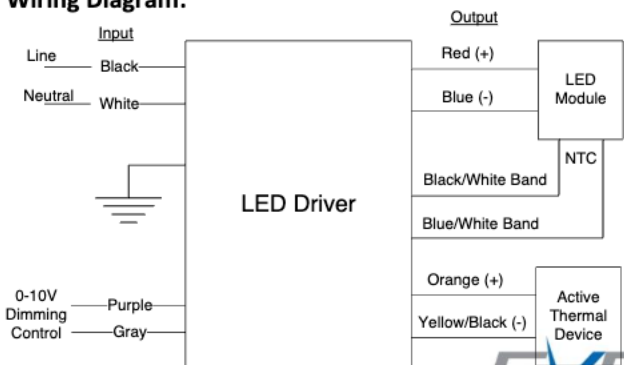
Performance

Input Voltage	120 ~ 277 Vac
Input Current Max	1.14 /120V 0.49/277V
Input Power Max	136W
Input Frequency	50 - 60 (Hz)
Power Factor	> 0.95
THD max	< 20 %
Output Voltage	60 - 172V
Output Current	21mA - 700mA
Output Power	120W Max
Line Regulation	±3 %
Load Regulation	±5 %

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	75°C (167°F) max
Protection Rating	UL Dry & Damp

Wiring Diagram:



Physical

Overall Length -VF	5.51 in (140.0 mm)
Overall Length -VJ/-VN	5.02 in (127.5 mm)
Width	3.62 in (92.0 mm)
Height	1.57 in (39.9 mm)
Weight	20 oz.
Lead Lengths	
Blk, Wht, Purple, Gray	8 in
Red(+), Blue(-)	8 in
Orange, Yellow/Black, Black/Wht, Blue/Wht	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

Enclosure Options

Part Number	Description
D700C120UVT-VN	No Mounting Feet
D700C120UVT-VF	Mounting Feet
D700C120UVT-VJ	J-Box Stud Mount

Thermal Foldback Control

Luminaire temperature monitoring/protection LED Driver reduces output current for external thermal protection if an NTC (Negative Thermal Coefficient) from Murata part number NCP18XV103J03RB is used. 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.

Tuning Interface

- Allows maximum output current to be tuned/programmed to any level of the dimming output range.
- Tuning is performed with the LDTC01A Tuning Controller
 - Controller is connected to the Grey and Purple Leads while the driver is powered for programming
 - For more information, see tuning controller instructions

Active Thermal Device Power Source

- Orange & Yellow/Black leads are for a 12V, 280mA max Active cooling device, (ex- Nuventix Synjet downlight LED Cooler)



Application and operation performance specification information subject to change without





Programmable Tuned Output Settings

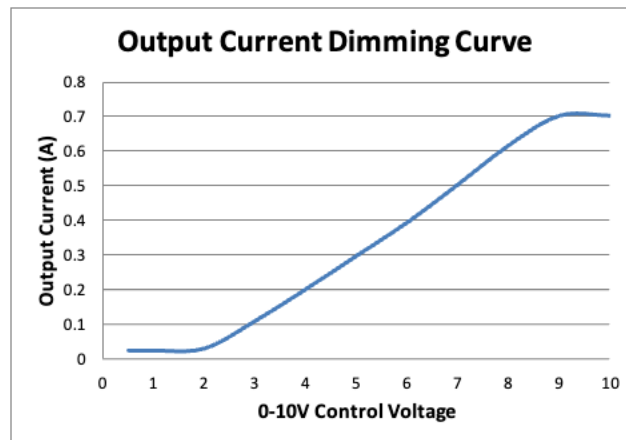
- This Everline LED Driver can be configured to set its current output to a selected fraction of their maximum rated design level. This function is called tuning (or also high-end trim) and it can be implemented with the LDTC01A using the Selector rotary switches. Tuning assignments are stored in driver 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)	SET Value	Output Current (A)	SET Value	Output Current (A)
100	0.700	80	0.534	60	0.384
99	0.690	79	0.526	59	0.376
98	0.681	78	0.518	58	0.369
97	0.673	77	0.510	57	0.362
96	0.665	76	0.503	56	0.355
95	0.656	75	0.495	55	0.348
94	0.648	74	0.487	54	0.341
93	0.639	73	0.480	53	0.334
92	0.631	72	0.472	52	0.327
91	0.623	71	0.465	51	0.321
90	0.614	70	0.457	50	0.314
89	0.606	69	0.449	49	0.307
88	0.598	68	0.442	48	0.300
87	0.590	67	0.435	47	0.293
86	0.582	66	0.427	46	0.287
85	0.574	65	0.420	45	0.280
84	0.566	64	0.413	44	0.274
83	0.558	63	0.405	43	0.267
82	0.550	62	0.398	42	0.260
81	0.542	61	0.391	41	0.254
				40	0.247

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
- Driver protected if line voltage is applied.
- 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 250uA for control needs.



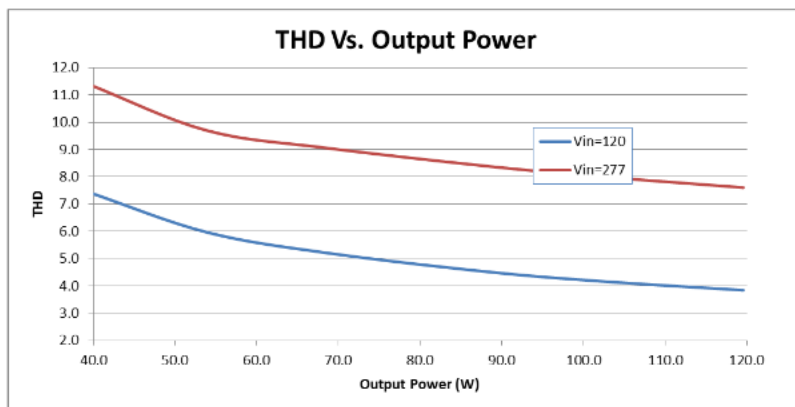
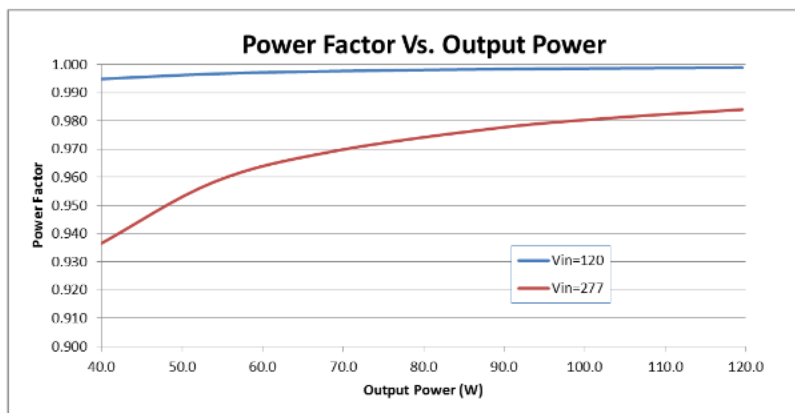
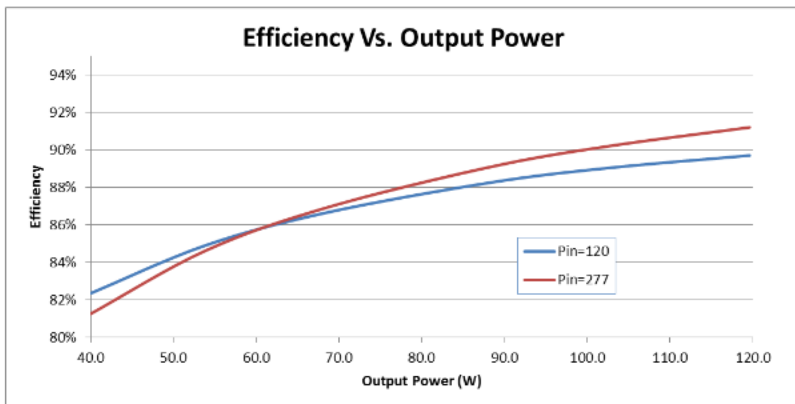
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Performance: Efficiency, THD, & Power Factor

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.



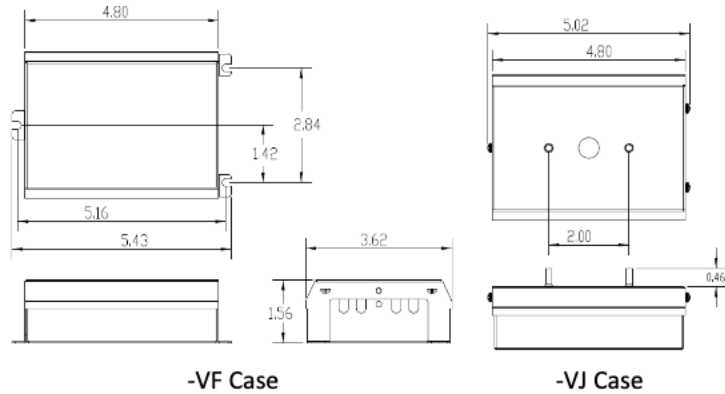
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D700C120UVT-Vx

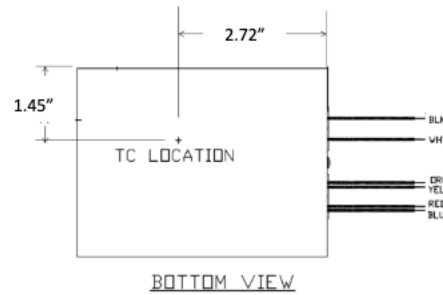
Tc Location

For the "N" and "F" versions, Tc location is on the bottom of the case. For the "J" version with the leads exiting out the bottom, the screw on the side of the case is oriented to the right and the Tc is located on the side with the label.



Conditions of Acceptability –

1. These products are for use only in (or with) complete end product equipment where the acceptability of the combination is determined by CSA International or others having jurisdiction.
2. The product shall be installed in compliance with the enclosure, mounting, mounting surface, strain relief, pushback relief, spacing, segregation, and all other applicable requirements of the End Product in which it is employed. Suitability shall be determined during End Product Certification Evaluation.
3. Product / product installation into end product is subject to any additional applicable requirement(s) of all applicable end product standard(s). These requirements shall be verified during end product evaluation.
4. These Drivers were evaluated for use in an elevated ambient not exceeding 41°C and the maximum case temperature at (Tc) location should not exceed 75°C when the driver is installed in the end-use application.
5. These products are suitable for use in wet locations only when the optional CSA/UR (cUS, INT) water resistant wiring is incorporated in the products. Otherwise the products are suitable for damp locations only.
6. The output from the 0-10 Vdc dimming interface (violet and gray leads) was tested and found compliant with the Class 2 limits in accordance with UL 1310 and CSA C22.2 No. 223.
7. The Mechanical Strength test on enclosures was performed in accordance with UL 8750 and CSA C22.2 No. 250-13.12. The suitability of the enclosure of the unit with regards to the outcome of this test shall be determined in the end-product evaluation.
8. All parts of these models are fully submerged in potting compound in accordance with sub-clause 41.1 (c) of UL 844



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.



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