D14CC180UNVPWX12-F

1400mA Programmable LED Driver

- 180W constant current output with 0-10V dimming
- Full featured programmability with 12Vdc 200mA auxiliary output
- Low standby power (<0.5W) in dim-to-off state

Performance	
Input Voltage	120 ~ 277 Vac
Input Current Max	1.77A / 120V 0.75A / 277V
Input Power Max	200W
Input Frequency	50 - 60 (Hz)
Power Factor	> 0.95 @ max load
THD max	< 20 % @ max load
Output Voltage (Refer to Driver Operating Range)	80V to 128V @ 1.40 Amps 80V to 192V @ 0.94 Amps
Max. Output Current	1400mA
Min. Dimming Current	40mA
Output Power	180W
Standby Power	< 0.5W @120Vac
	< 0.5W @ 277Vac
Line Regulation	±3 %
Load Regulation	±5 %
Output Current Ripple	<10% (Pk-Pk/avg)
Inrush Current* Peak / >10% Duration	120V: 43A / 184uS 277V: 99A / 182uS

* source impedance per NEMA 410

Protection

Over Voltage, Under Voltage, Short Circuit, Over Temp

Safety:

UL 8750 & CSA 250.13

UL Class P

c UL us LISTED LED DRIVER E339166

RoHS COMPLIANT

Auxiliary Output	
Output Power	2.4W
Output Voltage	12Vdc
Output Current	200 mA

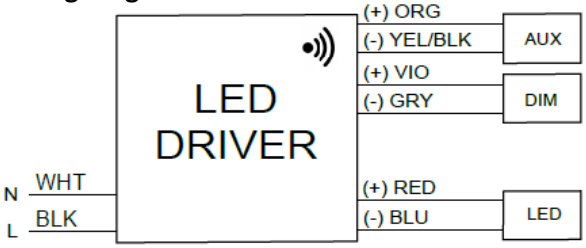
Physical	
Length	9.50 in
Width	2.38 in
Height	1.58 in
Mounting Length	8.90 in
Weight (lbs)	2.6 lbs
Lead Lengths (+/- 1 in)	
Blk, Wht, Purple, Gray	11.5 in
Red(+), Blue(-), Orange, Yellow/Black	11.5 in

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

Environmental	
EMI and RFI	Meets FCC part 15 (Class A) Non-Consumer Limits
Sound Rating	Class A
Operating Temperature	-40°C to 55°C (-40°F to 131°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Warranty Tc	85°C max for 50k Hr Life
Location Rating	UL Dry & Damp, Type HL
IP Rating	IP66
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.

Wiring Diagram:



Ordering Information

Order Number	Description	Qty/Carton
D14CC180UNVPWX12-F010C	1400mA 180W	10

- **NOTE:** Unused Orange and Yellow/Black leads must be individually capped off when auxiliary output power is not used.

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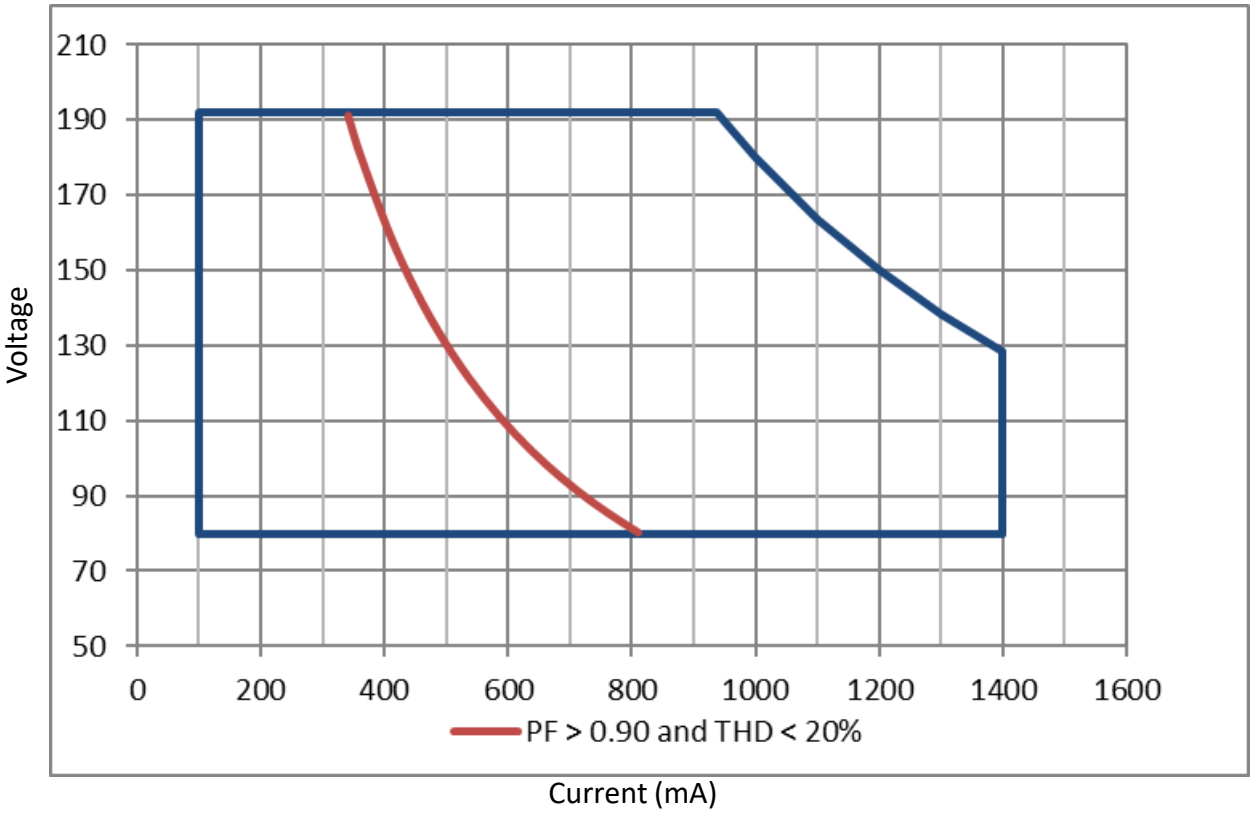
Programmable Features
Output Current
Minimum Dimming Level
Dim-to-Off
Dimming Curve (Linear, Linear Soft Start, Logarithimc)
Lumen Maintenance
Thermal Overload

*Refer to application notes EVD10, EVD11 and EVD15 at www.unvlt.com for additional information on programmable features.

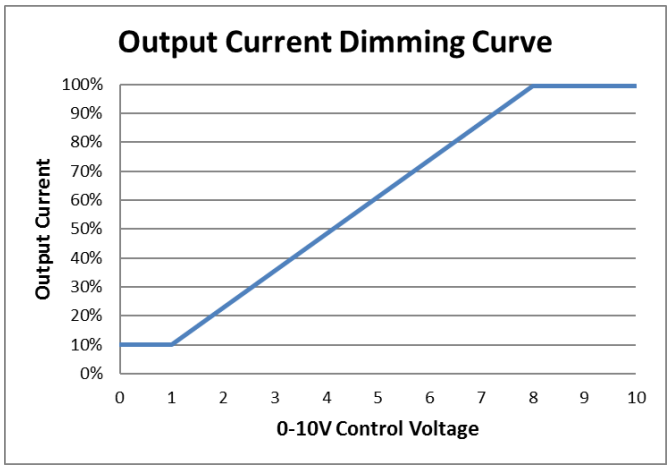
Programming System	
Software	EVERset Programming Software
Hardware	LDPC000A Configuration Tool
Driver Interface	Wireless via RFID

Driver Operating Range:

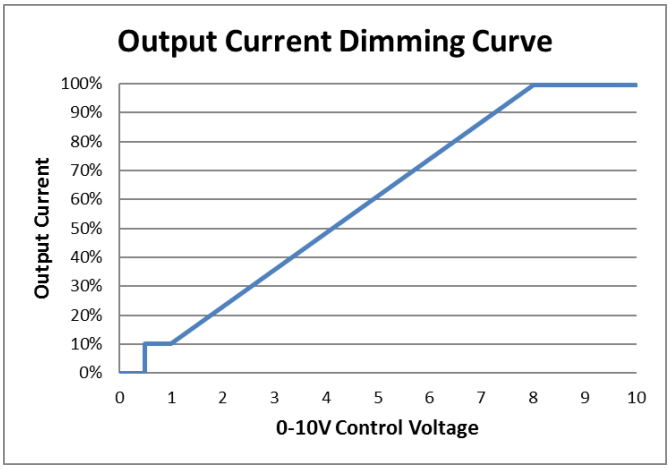


0-10V Dimming

Linear Dimming to 10%



Linear Dimming w/ Dim-to-Off



* Driver ships with Dim-to-Off disabled. Dim-to-Off must be enabled through the EVERset programming software.

0-10V Analog Dimming Interface

- Analog 0 to 10 Vdc Voltage Control
- Use Violet (+) & Gray (-) for connection to 0-10 Vdc.
- 10V = maximum output
- 0V = dim-to-off or programmed minimum dimming level
- 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 165uA for control needs.
- Controller must sink current from the 0-10V control leads.

Programmable Dimming Features		
Feature	**Range**	**Factory Default**
Maximum Output Current	100 - 1400mA	default = 1400mA
Minimum Dimming Level	40 - 700mA	default = 140mA
Dimming Curve	(Linear, Linear Soft Start, Logarithmic w/ factor 1 to 7)	default = Linear
Dimming Control Voltage Range		
Max Bright Control Voltage	7 - 9Vdc	default = 8Vdc
Min Dim Level Control Voltage	1 - 3Vdc	default = 1Vdc
Dim-to-Off	0.1 - 1.7Vdc; 0 = disabled	default = 0Vdc

* Refer to application note EVD10 at www.unvlt.com for additional information on programmable dimming features.

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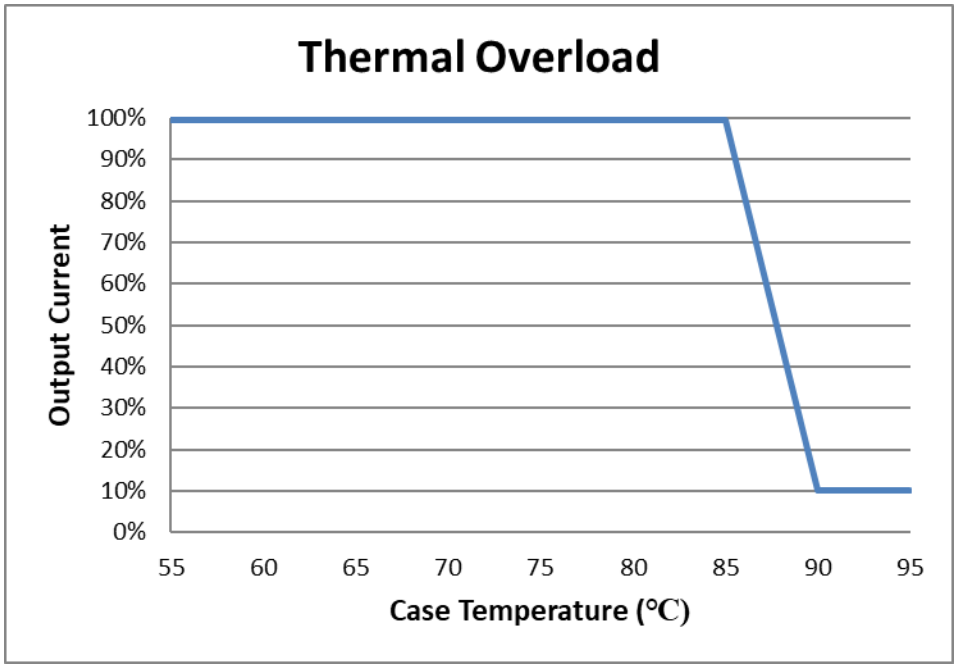
Driver Thermal Overload Foldback



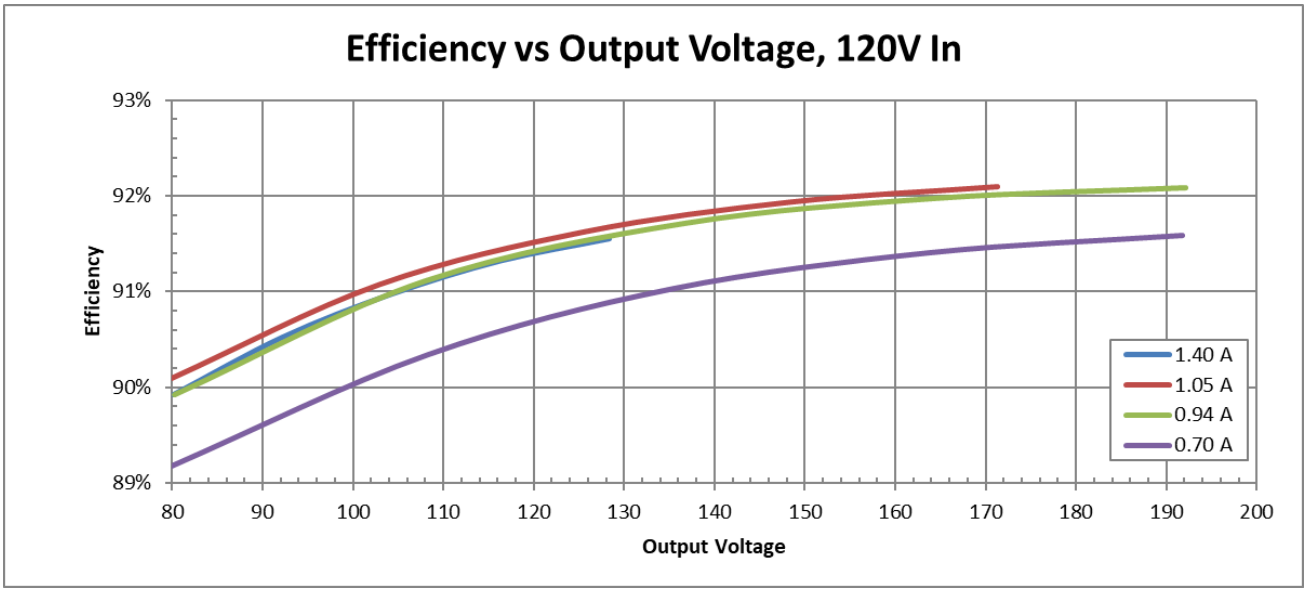
Example with the Output Current set to 1400mA, Starting Temperature set to 85°C, Ending Temperature set to 90°C and Ending Output Current set to 140mA (10%).

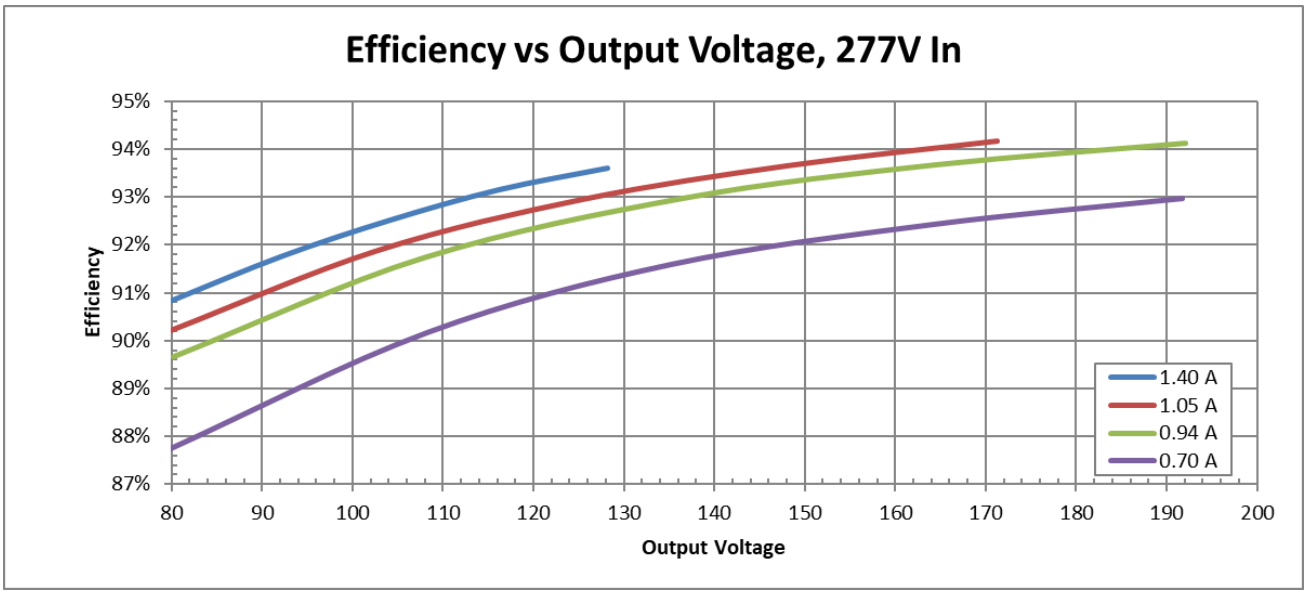
Programmable Thermal Overload		
Feature	**Range**	**Factory Default**
Starting Temperature	25 - 89°C	default = disabled
Ending Temperature	26 - 90°C	default = disabled
Ending Output Current	40 - 1400mA	default = disabled

*Refer to application note EVD15 at www.unvlt.com for additional information on Programmable Thermal Overload.

Performance: Efficiency

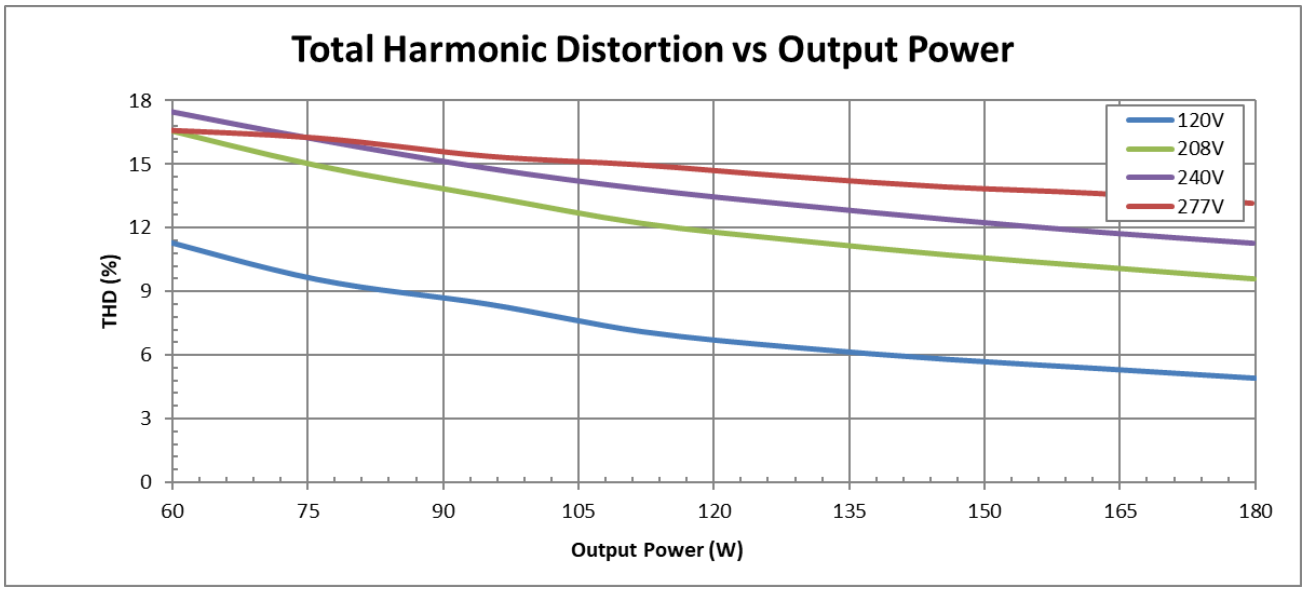
Typical performance measurements are shown. The charts are to be used as a guideline and not for specification use.

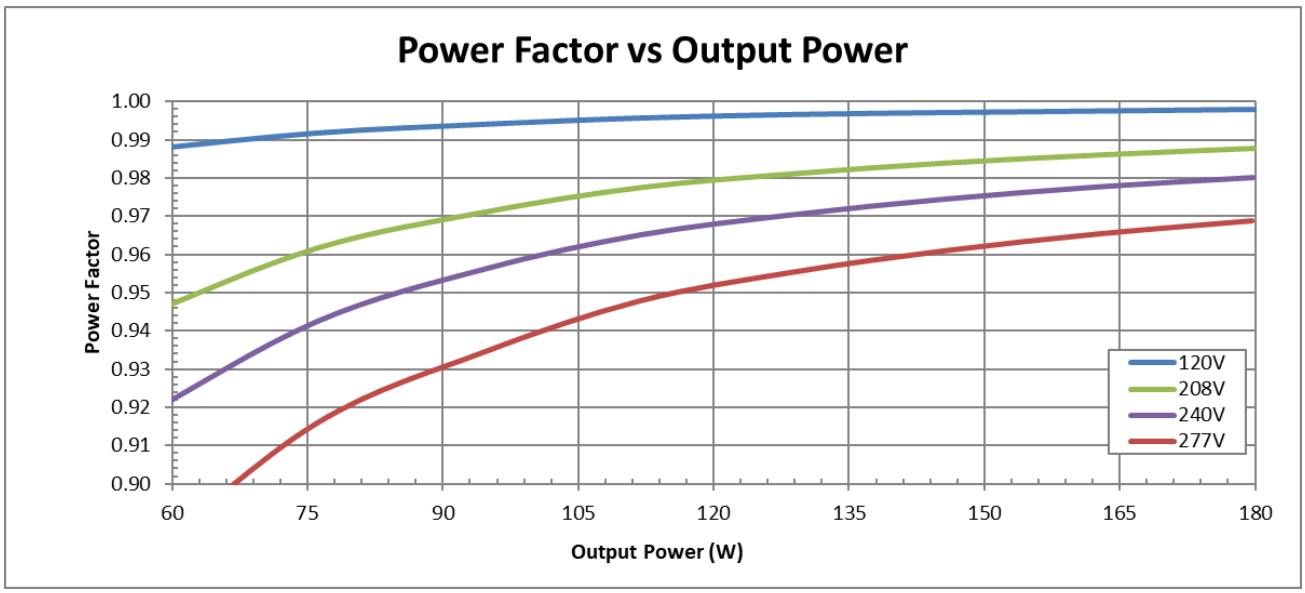




Performance: Total Harmonic Distortion, & Power Factor

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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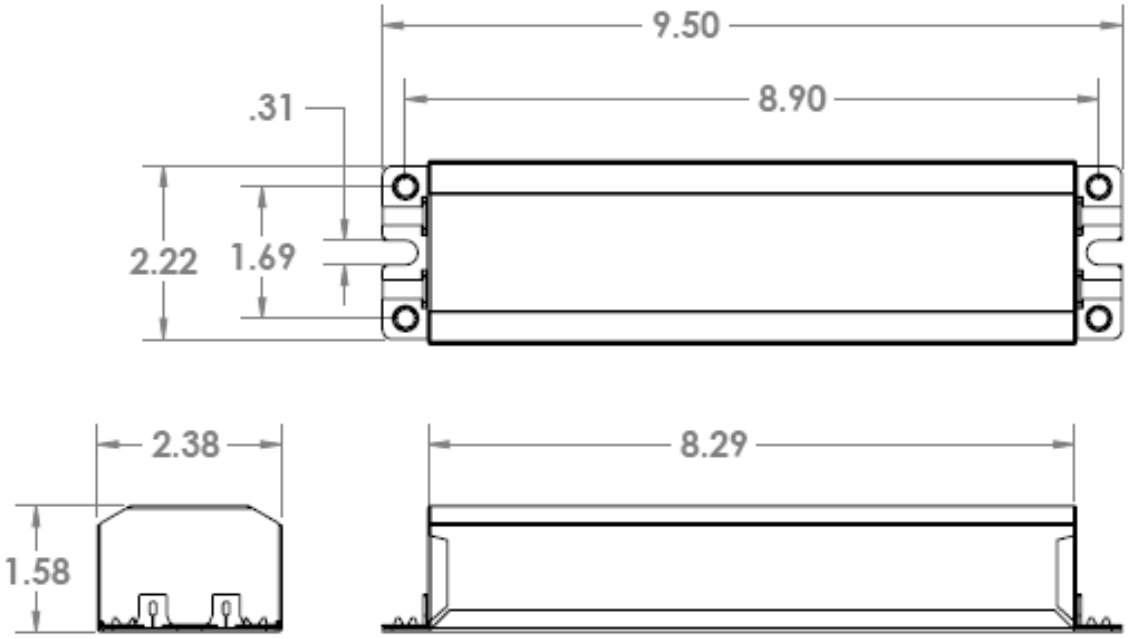
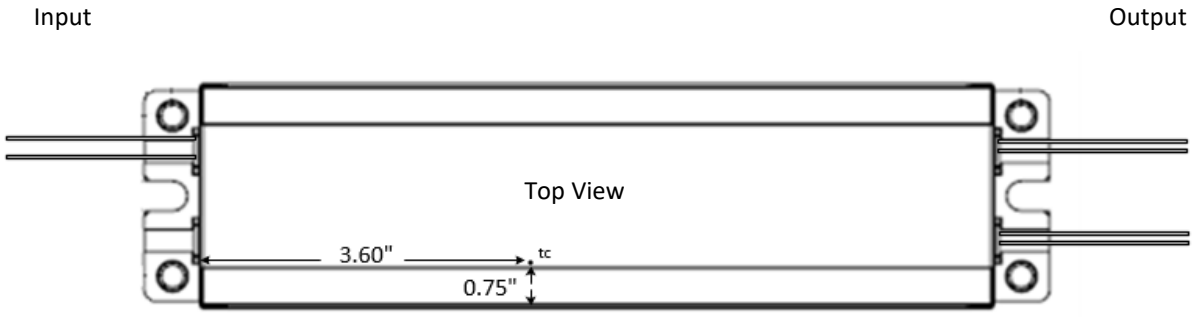
Dimensional Diagram:



Tc Location:



Transient Protection		
Transient	**Differential Mode (L-N)**	**Common Mode (L-G, N-G, L&N-G)**
IEEE C62.41 1.2/50µs Combination Wave (w/t 2Ω)	> 6kV*	> 6kV*

Isolation					
Isolation	**Input**	**Output**	**0-10V**	**Auxiliary**	**Enclosure**
Input	-	2xU + 1kV	2xU + 1kV	2xU + 1kV	288V*
Output	2xU + 1kV	-	2xU + 1kV	2xU + 1kV	2xU + 1kV
0-10V	2xU + 1kV	2xU + 1kV	-	2xU + 1kV	2xU + 1kV
Auxiliary	2xU + 1kV	2xU + 1kV	2xU + 1kV	-	2xU + 1kV
Enclosure	288V*	2xU + 1kV	2xU + 1kV	2xU + 1kV	-

U = Max Input Voltage

*Driver uses MOVs for transient protection.
Refer to application note EVD07 at www.unvlt.com for additional information on Hi-Pot Testing.

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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