D800C33UNVSL-GB

800mA Selectable Output Current LED Driver

- 800/750/700/650mA Selectable Output Current
- 0-10V dimming to 5% with dim-to-off
- Class B EMI at 120Vac input

Performance	
Input Voltage	120 ~ 277 Vac
Input Current Max	0.35 /120V 0.12 / 277V
Input Power Max	39.4W
Input Frequency	50 - 60 (Hz)
Power Factor	> 0.95 @ max load
THD max	< 20% @ max load
Output Voltage	24V to 42V
Max. Output Current	650/700/750/800mA
Min. Dimming Current	5% of selected Iout
Max. Output Power	33.6W
Standby Power	< 0.25W @120Vac
	< 0.75W @ 277Vac
Line Regulation	±5 %
Load Regulation	±5 %
Output Current Ripple	<30% (Pk-Pk/avg)
Inrush Current*	120V: 30A / 100uS
Peak / >50% Duration	277V: 25A / 120uS
LED Start Up Time	<500mS

* Source impedance per NEMA 410

Environmental	
EMI and RFI	FCC part 15 (Class B) at 120V
	FCC part 15 (Class A) at 277V
Operating Temp.	-40°C to 40°C / -40°F to 104°F
Storage Temperature	-40°C to 75°C / -40°F to 167°F
tc	75°C max for warranty
	90°C max for UL
Protection Rating	UL Dry & Damp
Transient Protection	IEEE C62.41 2.5kV

Physical	
Length	4.72 in (120 mm)
Width	1.69 in (43 mm)
Height	1.00 in (25.4 mm)
Mounting Length	4.37 in (111 mm) w/ 1.30 in (33 mm) offset
Weight (lbs)	0.38 lbs
Lead Lengths	
Blk, Wht 18AWG / 105°C / 600V	5.90 in (150 mm)
Red(LED+), Blue(LED-) 18AWG / 105°C / 300V	5.90 in (150 mm)
Vio(Dim+), Pink*(Dim-) 22AWG / 105°C / 300V	11.42 in (290 mm)

Protection
Over Voltage, Short Circuit, Over Temp

Safety:
UL 8750 & CSA 250.13
UL Class P

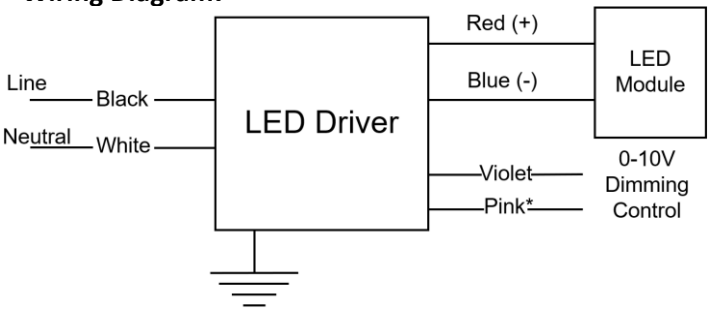
c UL us LISTED LED DRIVER E339166

RoHS COMPLIANT

Ordering Information

Order Number	Description	Qty/Carton
D800C33UNVSL-GB030C	800mA 33W	30

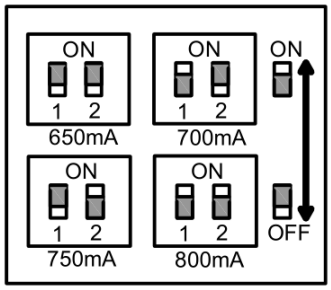
Wiring Diagram:



* **Note:** The Gray has been changed to Pink for the negative 0-10V dimming control lead.

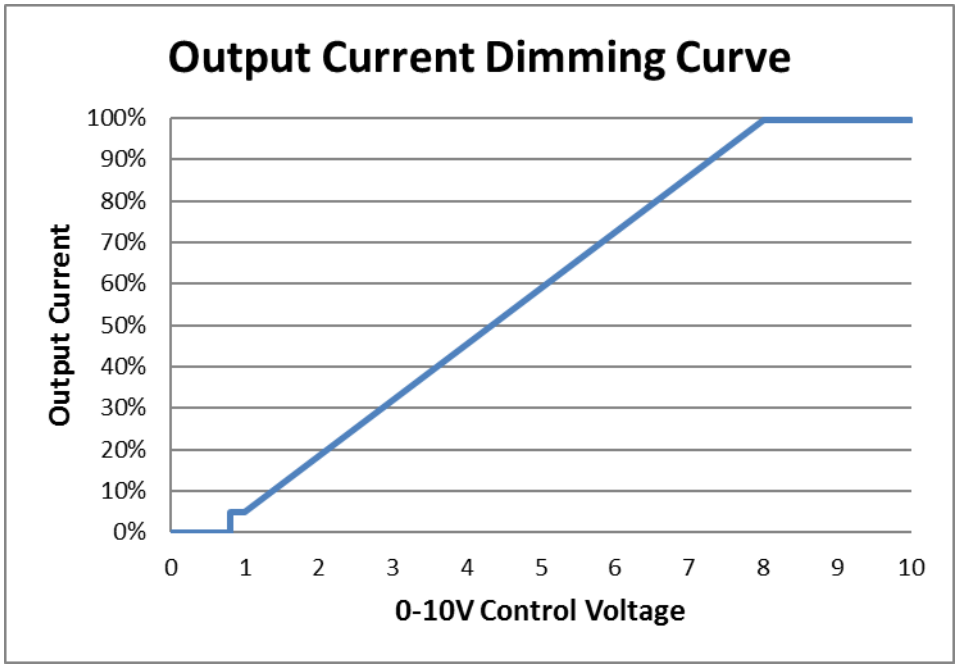
Application and operation performance specification information subject to change without notification.

Selectable Output Current



Switch 1	Switch 2	Output Current
On	On	800mA (default)
Off	On	750mA
On	Off	700mA
Off	Off	650mA

0-10V Dimming



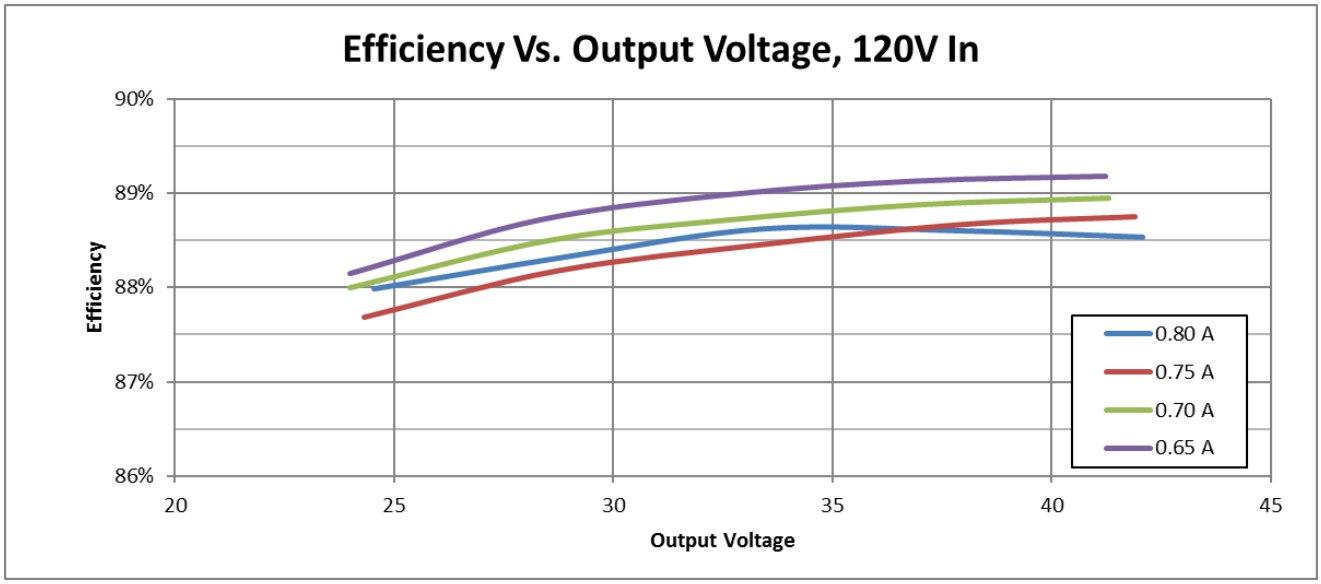
Control Voltage	Light Output
8V	100%
1V	5%
0.8V	Turn-Off
1V	Turn-On

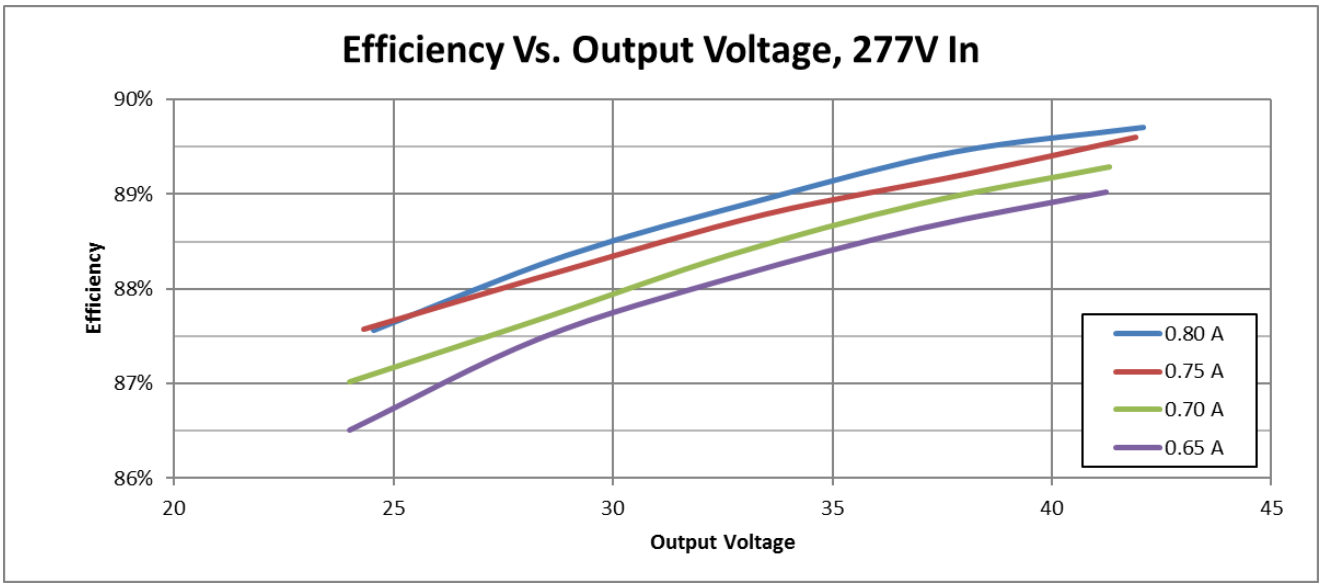
0-10V Analog Dimming Interface

- Analog 0 to 10 vDC Voltage Control
- Use Violet (+) & Pink* (-) for connection to 0-10vDC.
- 10v = maximum output, 0v = dim-to-off
- Wiring Violet & Pink* together provides min. light output.
- Capping Violet & Pink* separately provides 100% light output.
- 0-10V interface can be wired as a Class 1 or Class 2 Circuit.
- Driver will source a maximum of 160uA for control needs.
- Controller must sink current from the 0-10V control leads.

Performance: Efficiency

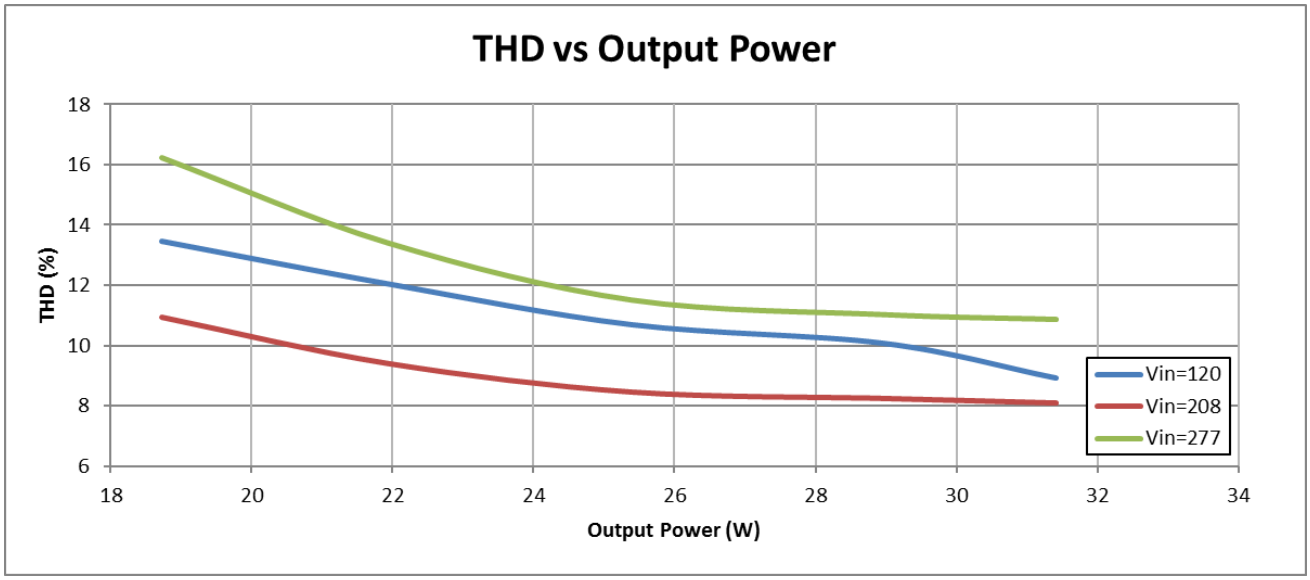
Typical performance measurements are shown. The charts are to be used as a guideline and not for specification use.

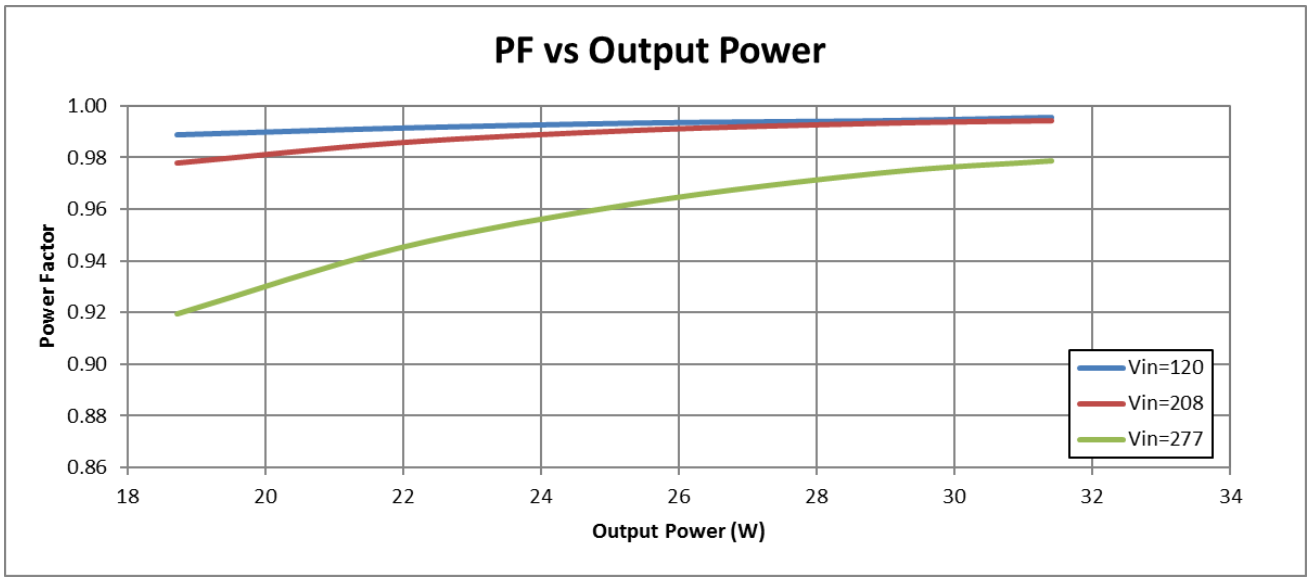




Performance: Total Harmonic Distortion, & Power Factor

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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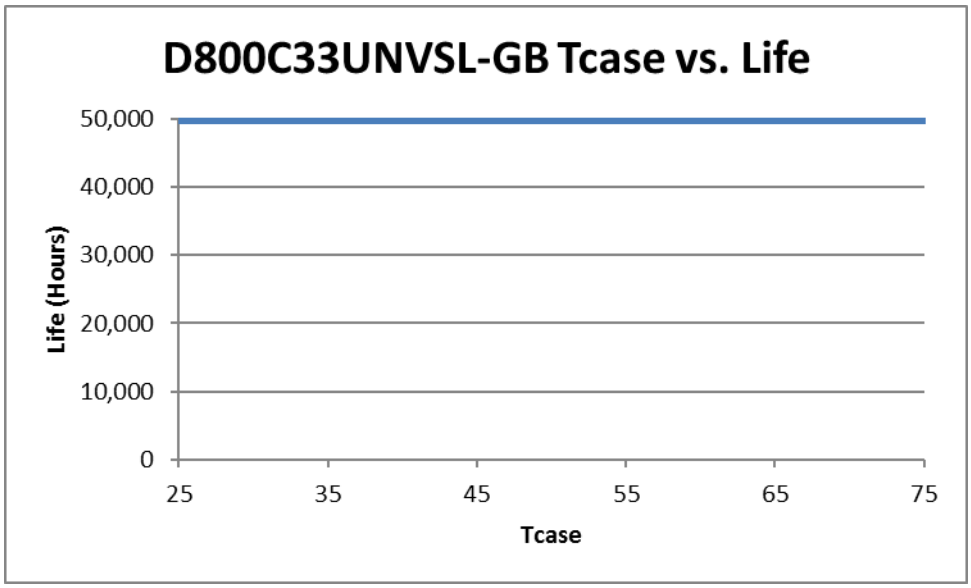
Transient Protection	
Transient	**Differential Mode (L-N)**
IEEE C62.41 100kHz Ring Wave (200A maximum)	> 2.5kV

Isolation				
Isolation	**Input**	**Output**	**0-10V**	**Enclosure**
Input	-	2xU + 1kV	2xU + 1kV	2xU + 1kV
Output	2xU + 1kV	-	2xU + 1kV	700V
0-10V	2xU + 1kV	2xU + 1kV	-	2xU + 1kV
Enclosure	2xU + 1kV	700V	2xU + 1kV	-

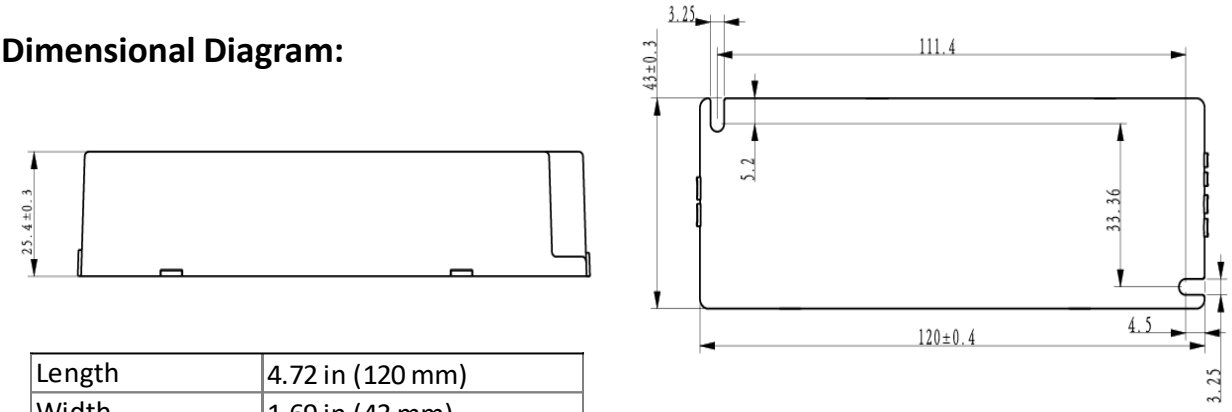
U = Max Input Voltage

Driver Lifetime vs. Driver Case Temperature



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:



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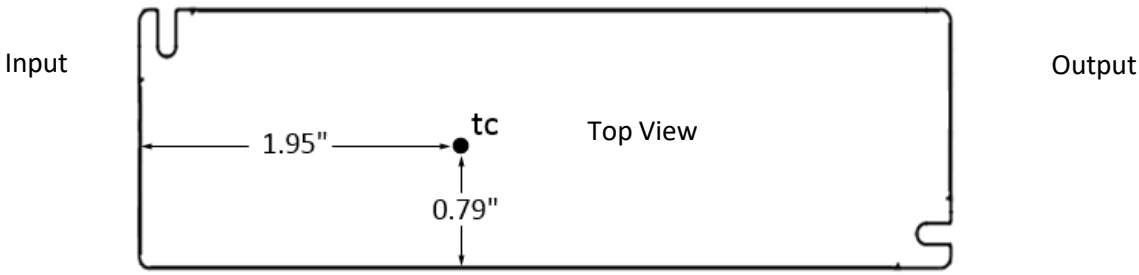
Tc Location:



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.