

## 2100mA Programmable LED Driver

- 80W constant current output with 0-10V dimming
- Full featured programmability with 12Vdc 100mA auxiliary output
- Low standby power (<0.5W) in dim-to-off state



### Performance

Input Voltage	120 ~ 277 Vac
Input Current Max	0.77A / 120V 0.33A / 277V
Input Power Max	93W
Input Frequency	50 - 60 (Hz)
Power Factor	> 0.95 @ max load
THD max	< 20 % @ max load
Output Voltage	16V to 38V @ 2.10 Amps (Refer to Driver Operating Range) 16V to 56V @ 1.40 Amps
Max. Output Current	2100mA
Min. Dimming Current	5mA
Output Power	80W
Standby Power	< 0.5W @ 120Vac < 0.5W @ 277Vac
Line Regulation	±3 %
Load Regulation	±5 %
Output Current Ripple	<10% (Pk-Pk/avg)
Inrush Current*	120V: 22A / 436uS Peak / >10% Duration 277V: 54A / 351uS

\* source impedance per NEMA 410

### Auxiliary Output

Output Power	1.2W
Output Voltage	12Vdc
Output Current	100 mA

### Physical

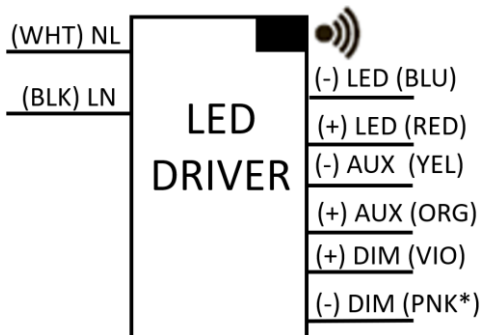
Length	16.88 in
Width	1.25 in
Height	1.00 in
Mounting Length	16.28 in
Weight (lbs)	1.25 lbs

Wire Trap / Plug-in Connectors: Strip length 0.33 in  
Use 16-22 AWG Solid Wire rated ≥ 90°C 300V

### 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
Transient Protection	IEEE C62.41 2.5kV

### Wiring Diagram:



### Protection

Over Voltage, Under Voltage, Short Circuit, Over Temp

### Safety:

UL 8750 & CSA 250.13  
UL Class P



### Ordering Information

Order Number	Description	Qty/Carton
D21CC80UNVPWX12-D010C	2100mA 80W	10

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

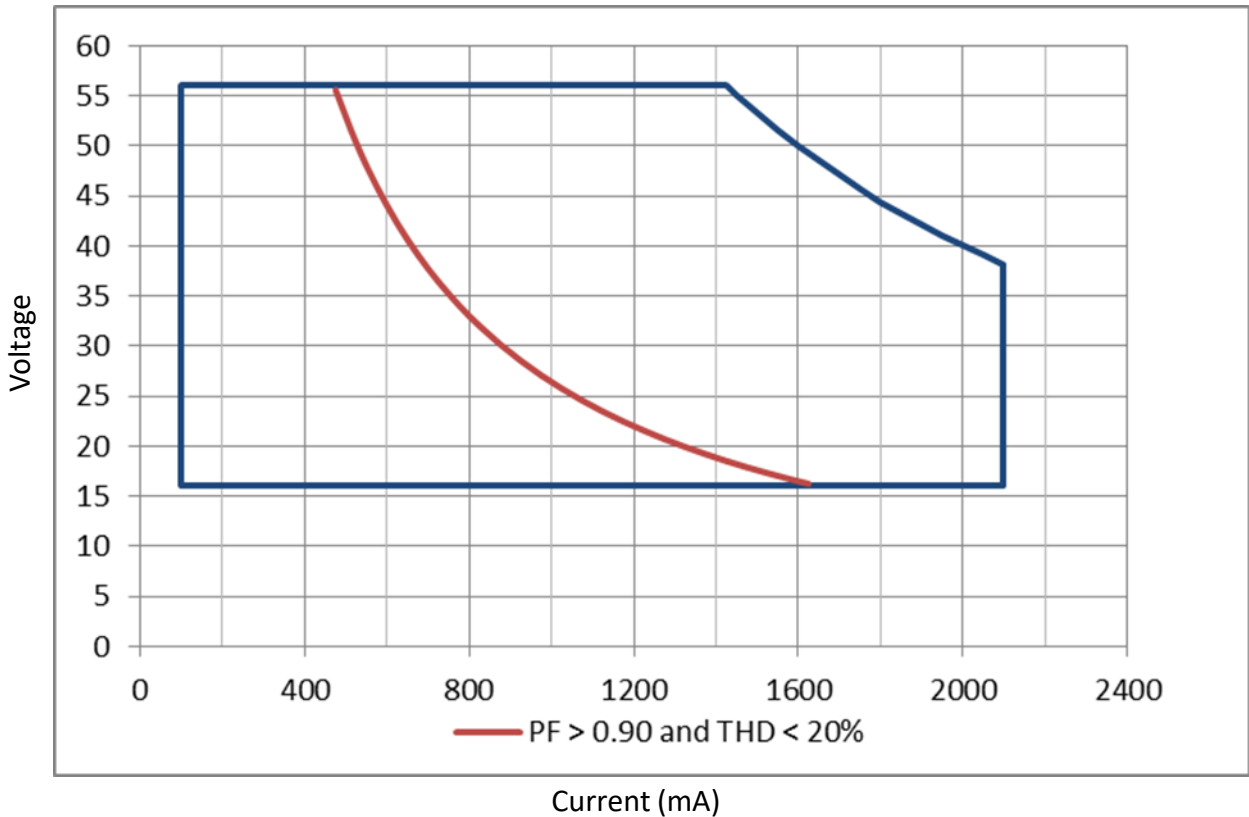
Application and operation performance specification information subject to change without notification.

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

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

\*Refer to application notes EVD10 and EVD11 at [www.unvlt.com](http://www.unvlt.com) for additional information on programmable features.

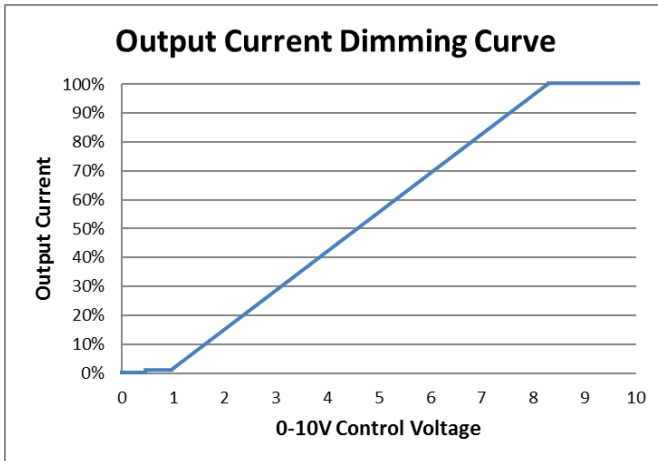
### Driver Operating Range:



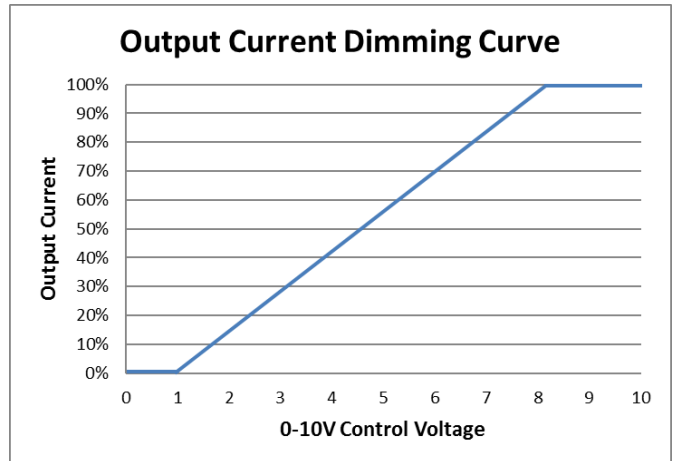
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## 0-10V Dimming

Linear Dimming w/ Dim-to-Off



Linear Dimming to 1%\*



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

### 0-10V Analog Dimming Interface

- Analog 0 to 10 Vdc Voltage Control
- Use Violet (+) & Pink\* (-) for connection to 0-10 Vdc.
- 10V = maximum output
- 0V = dim-to-off or programmed minimum dimming level
- 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

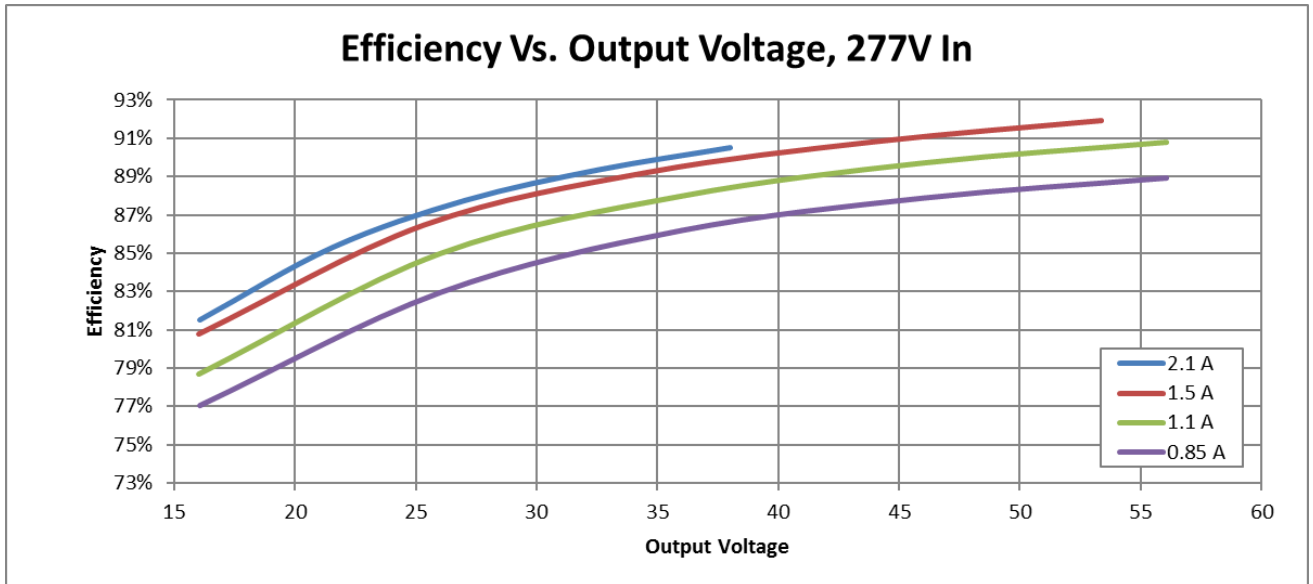
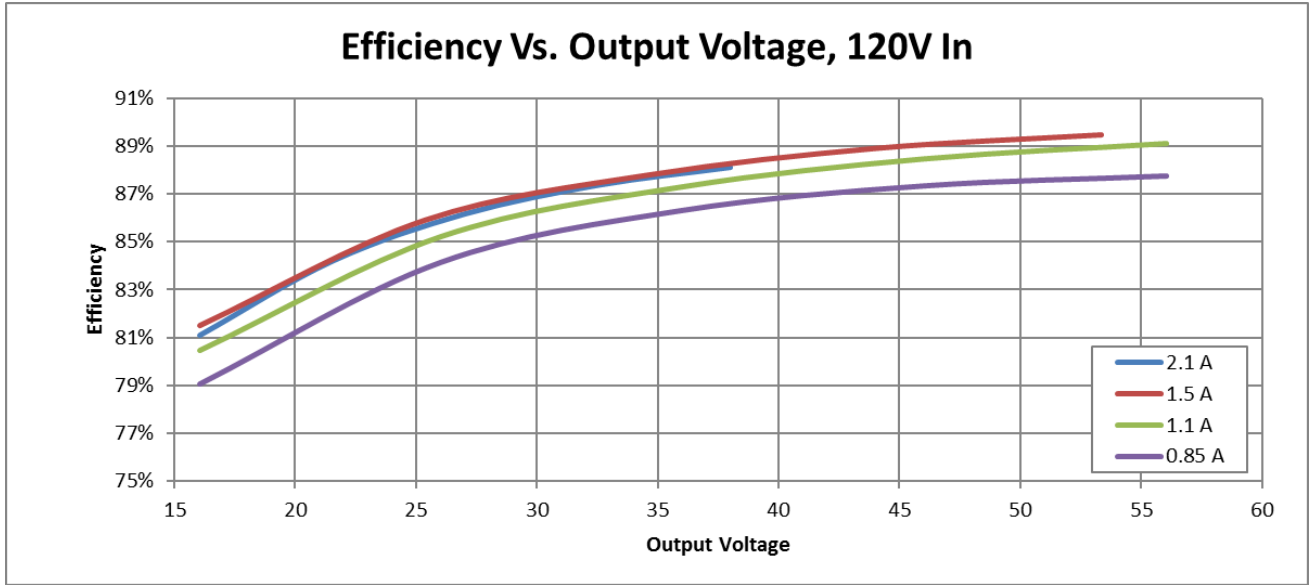
Feature	Range	Factory Default
Maximum Output Current	100 - 2100mA	default = 2100mA
Minimum Dimming Level	5 - 1050mA	default = 21mA
Dimming Curve	(Linear, Linear Soft Start, Logarithmic w/ factor 1 to 7)	default = Linear
Dimming Control Voltage Range		
Max Bright Control Voltage	7 - 9Vdc	default = 8Vdc
Min Dim Level Control Voltage	1 - 3Vdc	default = 1Vdc
Dim-to-Off	0.1 - 1.7Vdc; 0 = disabled	default = 0.5Vdc (enabled)

\* Refer to application note EVD10 at [www.unvlt.com](http://www.unvlt.com) for additional information on programmable dimming features.

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## Performance: Efficiency

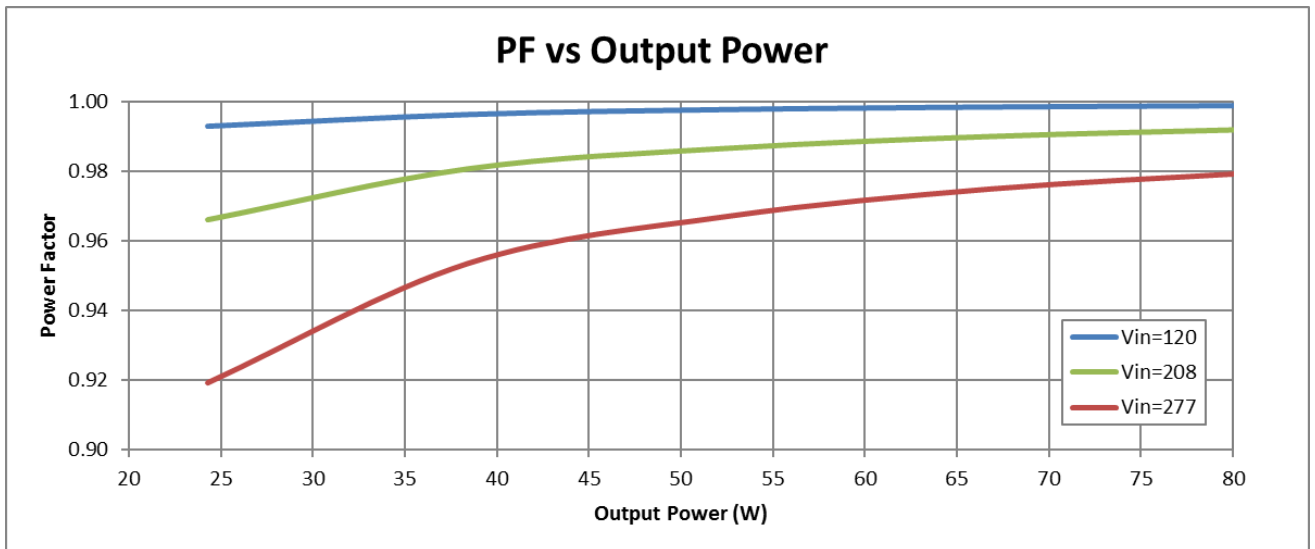
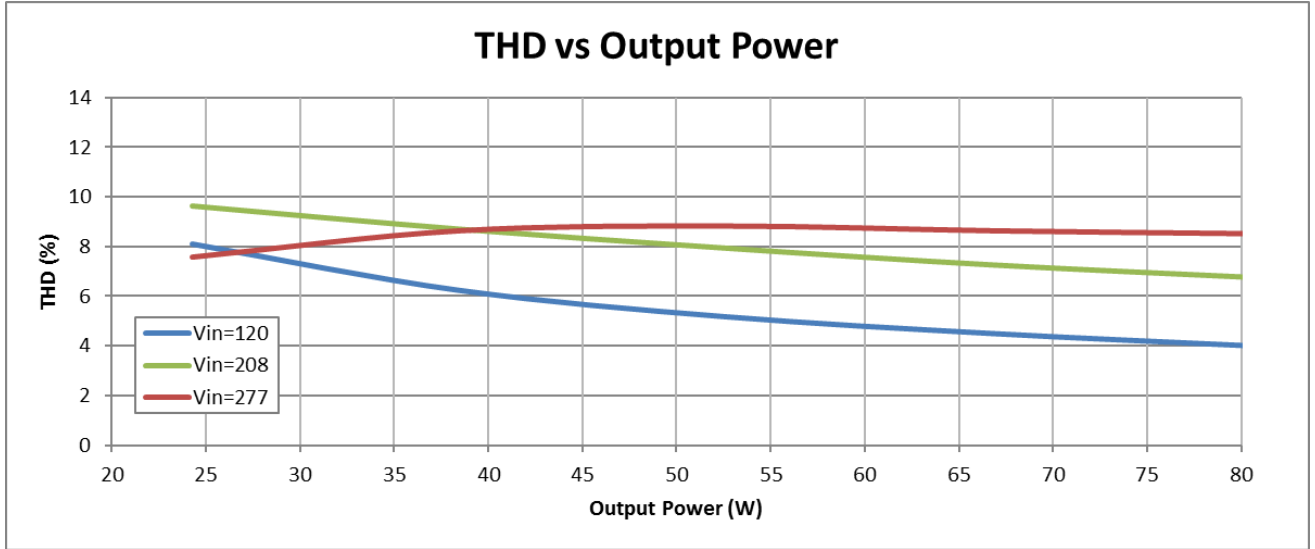
Typical performance measurements are shown. The charts are to be used as a guideline and not for specification use.



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## Performance: Total Harmonic Distortion, & Power Factor

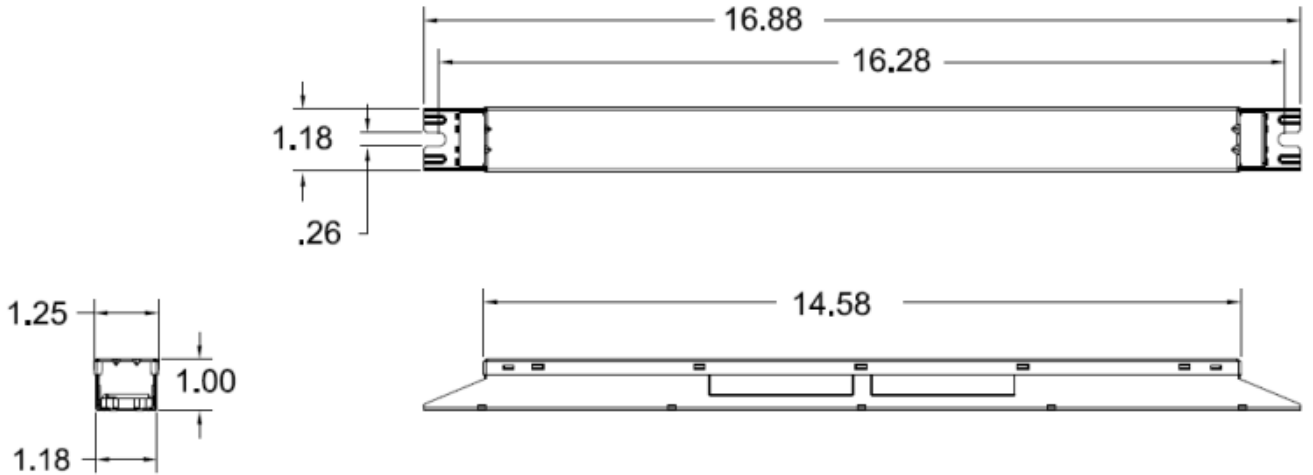
Typical performance measurements are shown. The charts are to be used as a guideline and not for specification use.



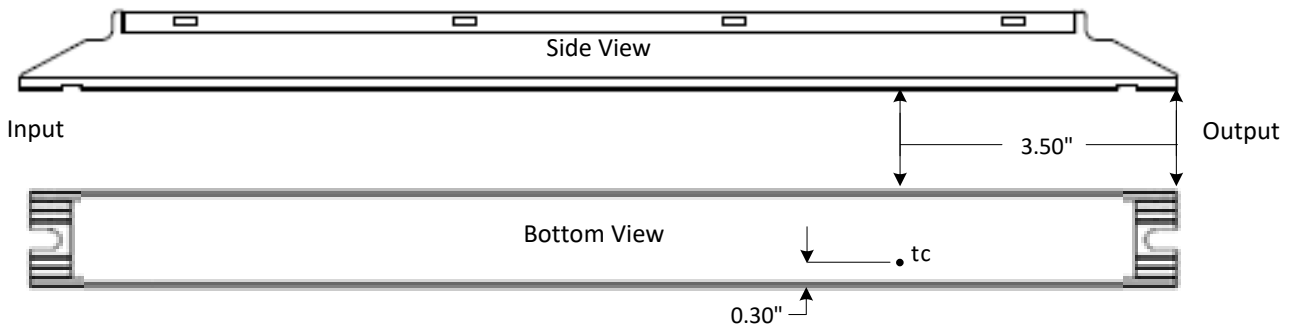
Output power based on maximum rated output current and varying load voltages.

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**Dimensional Diagram:**



**Tc Location:**



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

Isolation					
Isolation	Input	Output	0-10V	Auxiliary	Enclosure
Input	-	2xU + 1kV	2xU + 1kV	2xU + 1kV	2xU + 1kV
Output	2xU + 1kV	-	2xU + 1kV	Non-Isolated	700V
0-10V	2xU + 1kV	2xU + 1kV	-	2xU + 1kV	2xU + 1kV
Auxiliary	2xU + 1kV	Non-Isolated	2xU + 1kV	-	700V
Enclosure	2xU + 1kV	700V	2xU + 1kV	700V	-

U = Max Input Voltage

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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