

1500mA Programmable LED Driver

- ➤ 120-277V Input Voltage
- Class 2, 55W Constant Current Output with 0-10V dimming
- Full featured programmability with Wireless Programming

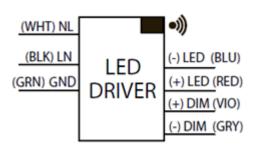


Performance			
Input Voltage	120 ~ 277 Vac		
Input Current Max	0.56 /120V 0.24 / 277V		
Input Power Max	65W		
Input Frequency	50 - 60 (Hz)		
Power Factor	> 0.95 @ max load		
THD max	< 20 % @ max load		
Output Voltage	16V to 37V @ 1.50 Amps		
(Refer to Power Curve Chart)	16V to 56V @ 0.98 Amps		
Max. Output Current	1500mA		
Min. Dimming Current	5mA		
Output Power	55W		
Standby Power	< 2.8W @120Vac		
	< 3.5W @ 277Vac		
Line Regulation	±3 %		
Load Regulation	±5 %		
Output Current Ripple	<10% (Pk-Pk/avg)		
Inrush Current*	120V: 19A / 303uS		
Peak / >10% Duration	277V: 47A / 299uS		

Strip length 0.33in	
Environmental	
EMI and RFI	Meets FCC part 15 (Class A)
	Non-Consumer Limits
Sound Rating	Class A
Operating Temperature	-40°C to 50°C (-40°F to 122°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

Wire Trap / Plug-in Connectors for 16-22 AWG Solid Wire

Wiring Diagram:



Driver case or green ground terminal must be grounded

Protection

Physical Length

Width

Height

Mounting Length

Weight (lbs)

Over Voltage, Under Voltage, Short Circuit, Over Temp Safety:

UL 8750 & CSA 250.13 UL Class P





14.25 in

1.18 in

1.00 in

13.75 in

1.0 lbs

Ordering Information

Order Number	Description	Qty/Carton
D15CC55UNVPW-C010C	1500mA 55W	10





^{*} Source impedance per NEMA 410

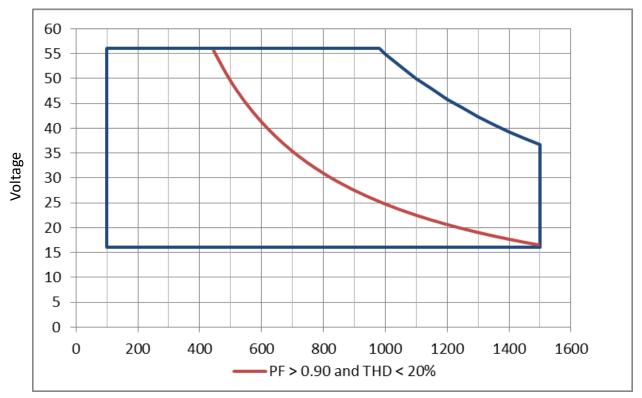


Programmable Features
Output Current
Minimum Dimming Level
Dim-to-Off
Dimming Curve
(Linear, Linear Soft Start, Logarithimc)
Lumen Maintenance

*Refer to application notes EVD10 and EVD11 at <u>www.unvlt.com</u> for
additional information on programmable features.

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

Driver Operating Range:



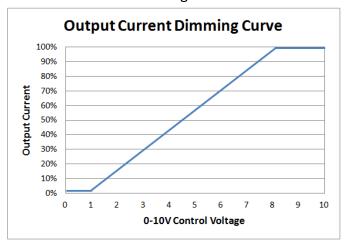
Current (mA)





0-10V Dimming

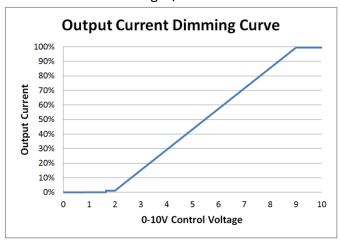
Linear Dimming to 1%



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
- 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.

Linear Dimming w/ Dim-to-Off



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

Programmable Dimming Features			
Feature	Range	Factory Default	
Maximum Output Current	100 - 1500mA	default = 1500mA	
Minimum Dimming Level	5 - 750mA	default = 15mA	
Dimming Curve	(Linear, Linear Soft Start,	default = Linear	
	Logarithmic w/ factor 1 to 7)		
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	default = OVdc (disabled)	

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



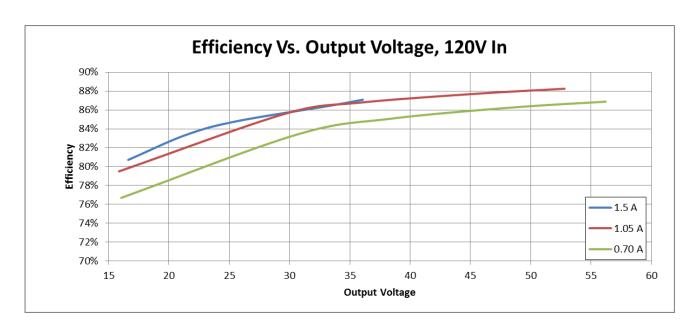


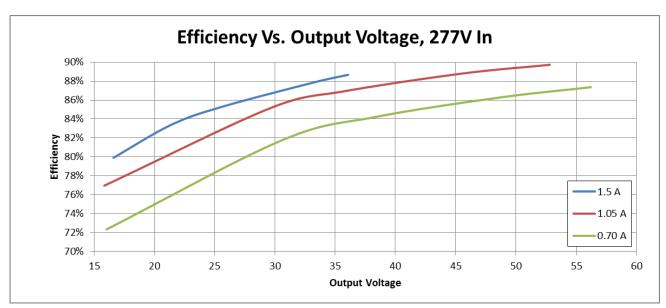




Performance: Efficiency

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







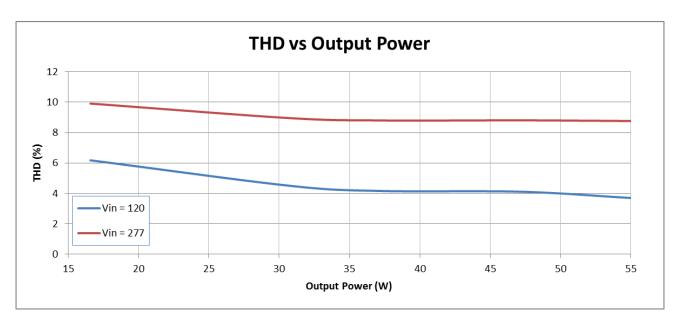


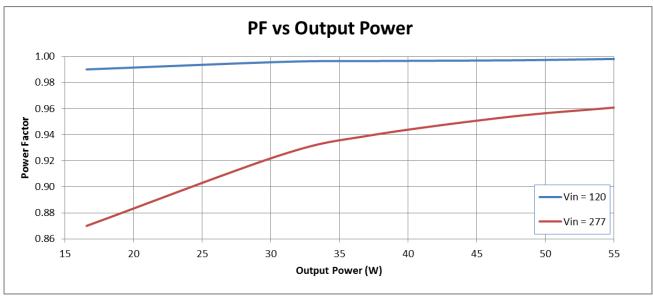




Performance: Total Harmonic Distortion, & Power Factor

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.

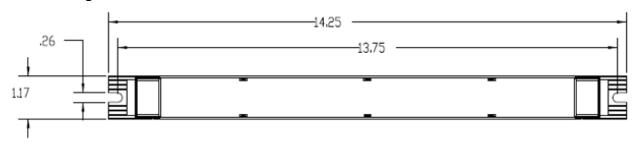


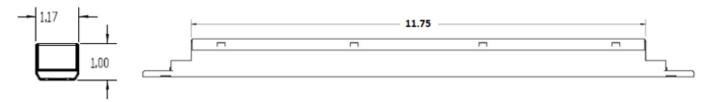




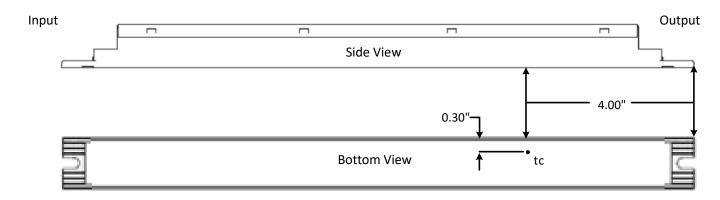


Dimensional Diagram:





Lifetime Tc Location:









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	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

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.



