D950C180UNVPWX12-F

950mA 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</p>

Performance

Performance		
Input Voltage	120 ~ 277 Vac	
Input Current Max	1.77A / 120V 0.75A / 277V	
Input Power Max	200W	
Input Frequency	50 - 60 (Hz)	- 6
Power Factor	> 0.95 @ max load	
THD max	< 20 % @ max load	
Output Voltage	114V to 189V @ 0.95 Amps	
(Refer to Driver Operating Range)	114V to 285V @ 0.63 Amps	
Max. Output Current	950mA	
Min. Dimming Current	25mA	
Output Power	180W	٦ŀ
Standby Power	< 0.5W @120Vac	ᅡ
	< 0.5W @ 277Vac	
Line Regulation	±3 %	
Load Regulation	±5 %	
Output Current Ripple	<10% (Pk-Pk/avg)	
Inrush Current*	120V: 43A / 184uS	E
Peak / >10% Duration	277V: 99A / 182uS	
* a sumas immediance man NIENAA 410		

* source impedance per NEMA 410

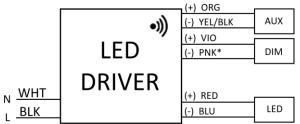
Protection

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

UL 8750 & CSA 250.13 UL Class P



Wiring Diagram:



- NOTE: Unused Orange and Yellow/Black leads must be individually capped off when auxiliary output power is not used.
- * Note: The Gray has been changed to Pink for the negative 0-10V dimming control lead.

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, Pink*	11.5 in		
Red(+), Blue(-), Orange, Yellow/Black	11.5 in		
Load wires are 18 AWG 105°C (600) solid coppor			

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

Environmental Meets FCC part 15 (Class A) EMI and RFI Non-Consumer Limits Sound Rating Class A **Operating Temperature** -40°C to 55°C (-40°F to 131°F) -40°C to 85°C (-40°F to 185°F) Storage Temperature 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 <u>www.unvlt.com</u> for additional information on Hi-Pot Testing.

Ordering Information

Order Number	Description	Qty/Carton
D950C180UNVPWX12-F010C	950mA 180W	10



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Programma	ble Features

Output Current

Minimum Dimming Level

Dim-to-Off

Dimming Curve

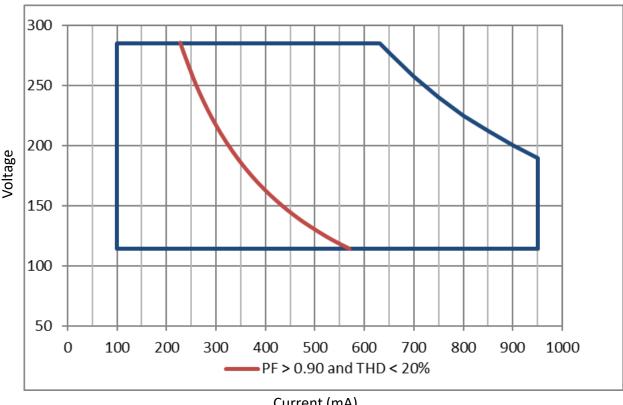
(Linear, Linear Soft Start, Logarithimc)

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		
	LDPC000A Configuration		
Hardware	Tool		
Driver Interface	Wireless via RFID		



Driver Operating Range:

Current (mA)



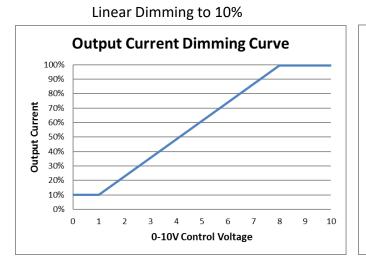
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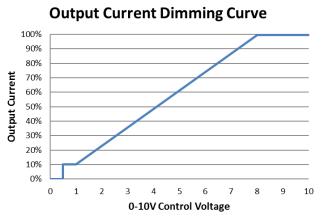
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0-10V Dimming



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 (+) & Pink* (-) for connection to 0-10 Vdc.
- 10V = maximum output
- 0V = dim-to-off or programmed minimum dimming level
- Wiring Violet & Pink* together provides min. light output.
- Capping Violet & Pink* 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.

Feature	Range	Factory Default
Maximum Output Current	100 - 950mA	default = 950mA
Minimum Dimming Level	25 - 475mA	default = 95mA
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

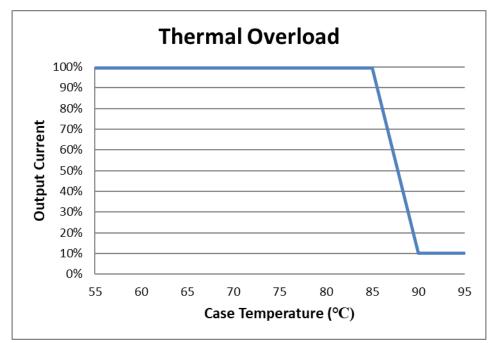
* Refer to application note EVD10 at www.unvlt.com for additional information on programmable dimming features.



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Driver Thermal Overload Foldback



Example with the Output Current set to 950mA, Starting Temperature set to 85° C, Ending Temperature set to 90° C and Ending Output Current set to 95mA (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	25 - 950mA	default = disabled	

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



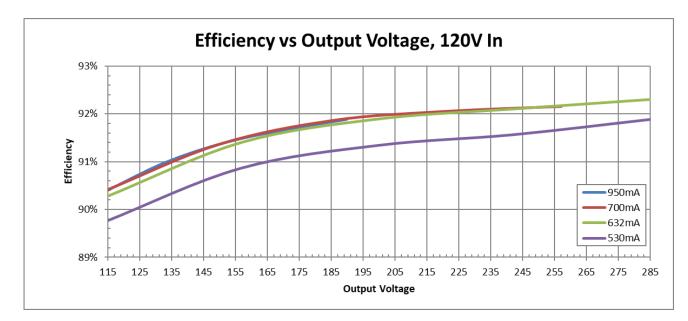
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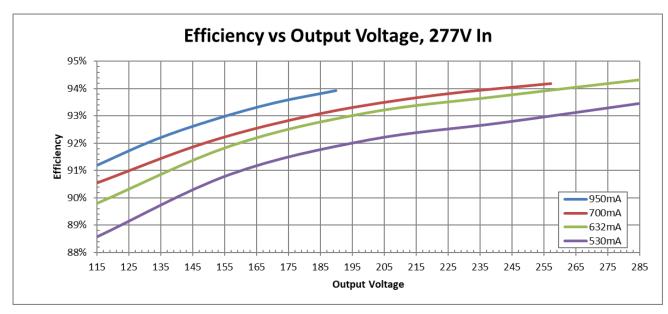




Performance: Efficiency

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







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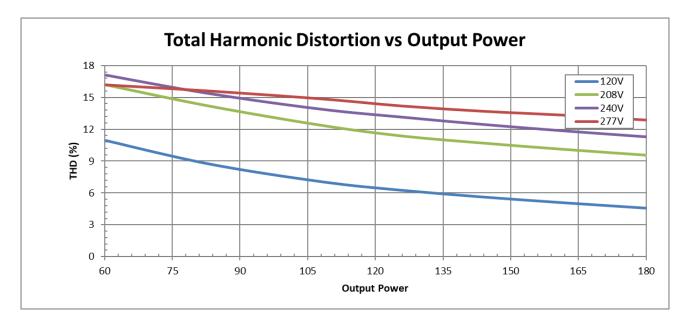
www.unvlt.com December 7, 2021

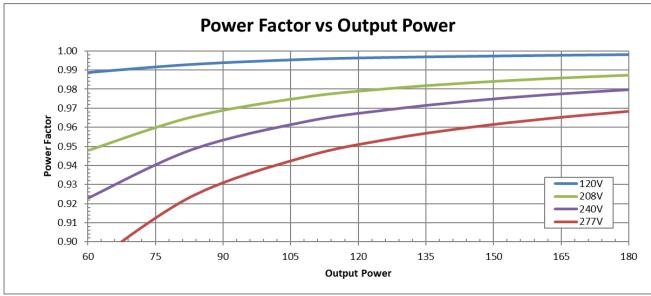
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Performance: Total Harmonic Distortion, & Power Factor

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.

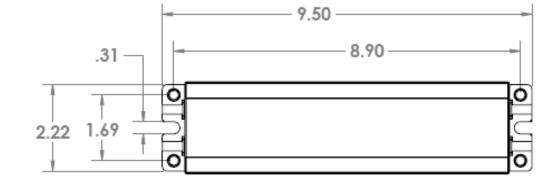


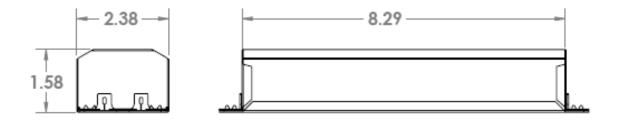
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Dimensional Diagram:

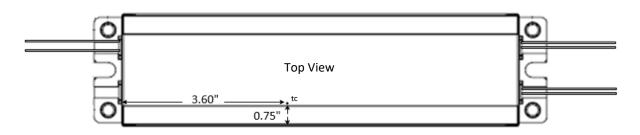




Tc Location:

Input

Output





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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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