

D21CC80UVPID12-D

2100mA Programmable LED Driver

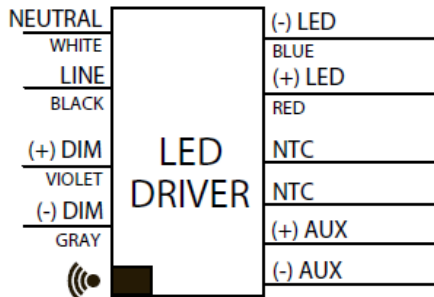
- Universal (120-277V) Input Voltage
- Class 2, 80W Constant Current Output
- Digital dimming with 2-way communication



Performance	
Input Voltage	120 ~ 277 Vac
Input Current Max	0.77/120V 0.33/277V
Input Power Max	93W
Input Frequency	50 - 60 (Hz)
Power Factor*	> 0.95
THD max*	< 20 %
Output Voltage	15V to 38V @ 2.10 Amps (Refer to Power Curve Chart) 15V to 56V @ 1.40 Amps
Max. Output Current	630 - 2100mA
Min. Dimming Current	21mA
Output Power	80W
Standby Power	< 2.8W @120Vac < 3.5W @ 277Vac
Line Regulation	±3 %
Load Regulation	±5 %
Output Current Ripple	<10% (Pk-Pk/avg)
Inrush Current	120V: 18A / 250uS
Peak / >50% Duration	277V: 32A / 250uS

- * Refer to charts for additional information
- Harmonic Emissions comply with ANSI C82.77
 - Inrush current complies with NEMA 410

Wiring Diagram:



Auxiliary Output	
Output Voltage	12Vdc
Output Current	100 mA

Physical	
Length	16.88 in (428.7 mm)
Width	1.25 in (31.8 mm)
Height	1.00 in (25.4 mm)
Mounting Length	16.28 in (413.5 mm)
Weight (lbs)	1.25
Wire Trap / Plug-in Connectors for 16-24 AWG Solid Wire	

Environmental	
EMI and RFI	Meets FCC part 15 (Class A) Non-Consumer Limits
Operating Temperature	-40°C to 55°C (-40°F to 131°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
tc	85°C max for warranty 90°C max for UL
Protection Rating	UL Dry & Damp
Transient Protection	IEEE C62.41 2.5kV

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
D21CC80UVPID12-D010C	Standard Product	10



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Programmable Features

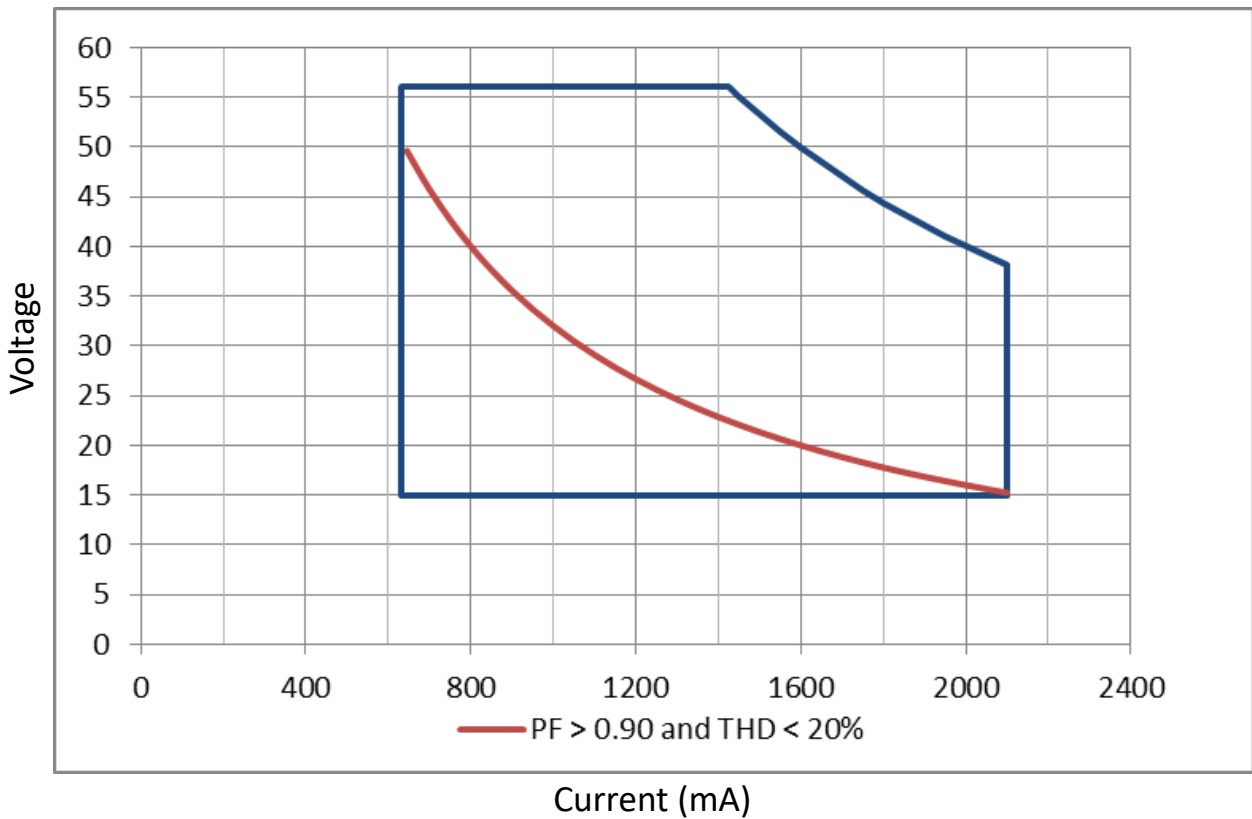
- Output Current
- Dim Current Floor

*Refer to application note EVD12 at www.unvlt.com for additional information on programmable features.

Programming System

Software	EVERset Programming Software
Hardware	LDPC000A Configuration Tool
Driver Interfaces	Wired via 0-10V leads
	Wireless via RFID

Driver Operating Range:

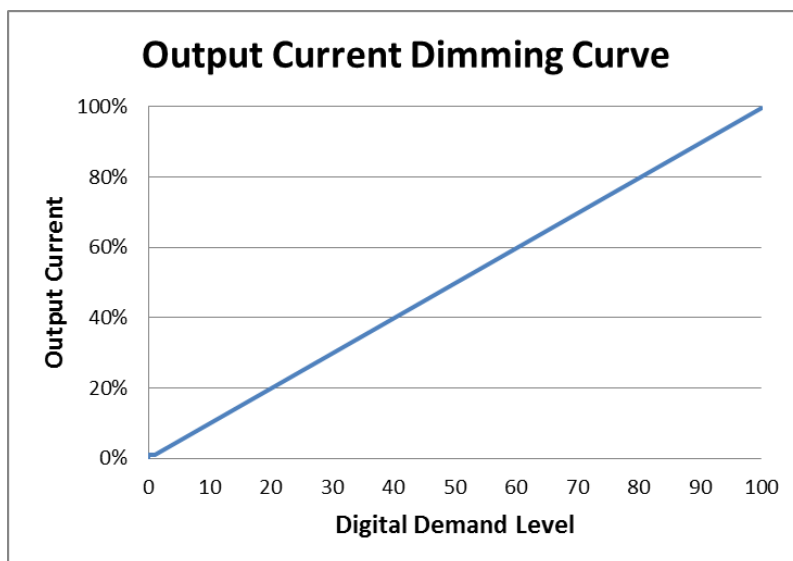


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Digital Dimming

Digital Dimming to 1%



Programmable Dimming Features		
Feature	Range	Factory Default
Maximum Output Current	630 - 2100mA	default = 2100mA
Dim Current Floor	0 - 525mA	default = 0mA**

* Refer to application note EVD12 at www.unvlt.com for additional information on programmable dimming features.

** Minimum dimming current of the driver is 21mA, a lower programmed dim current floor is used for the slope of the digital dimming curve.

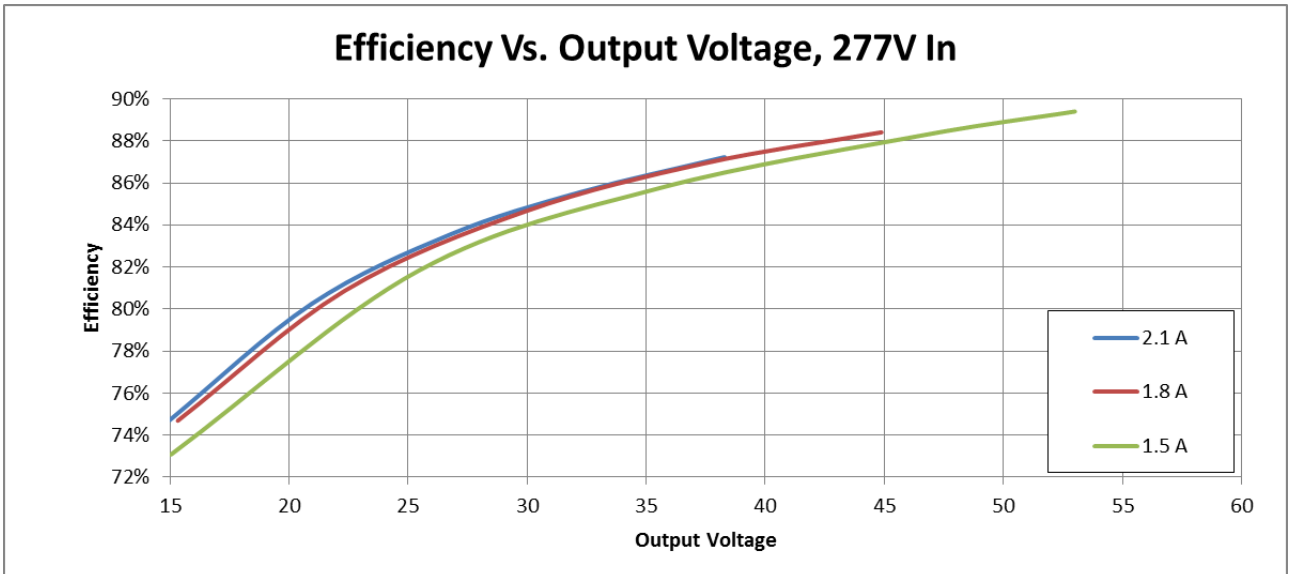
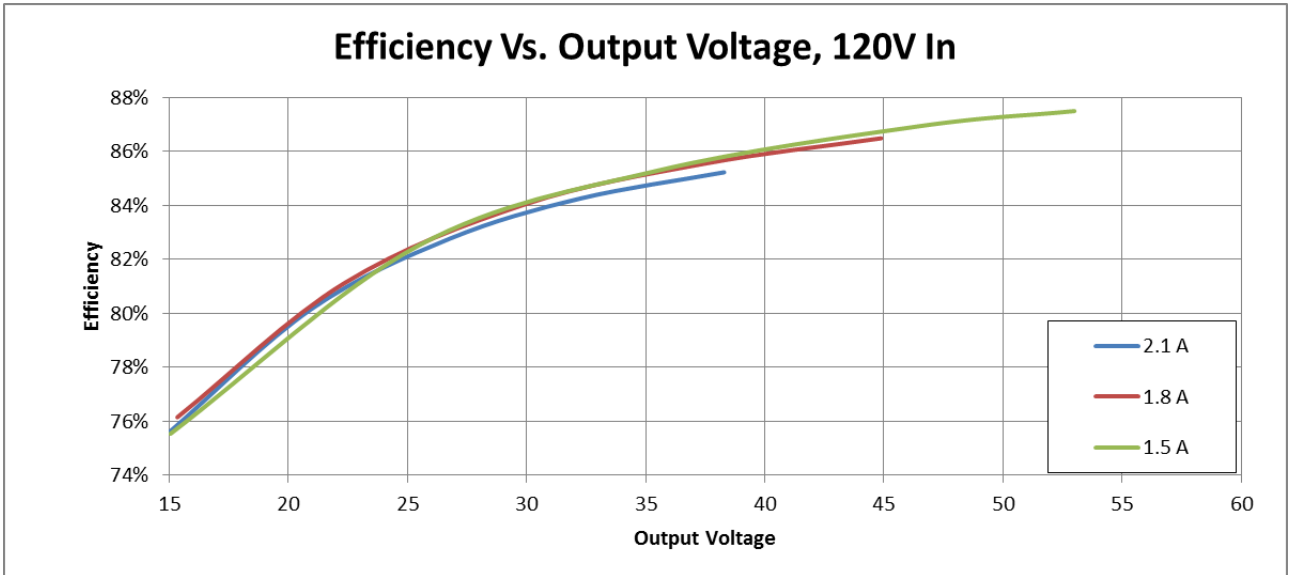


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Performance: Efficiency

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

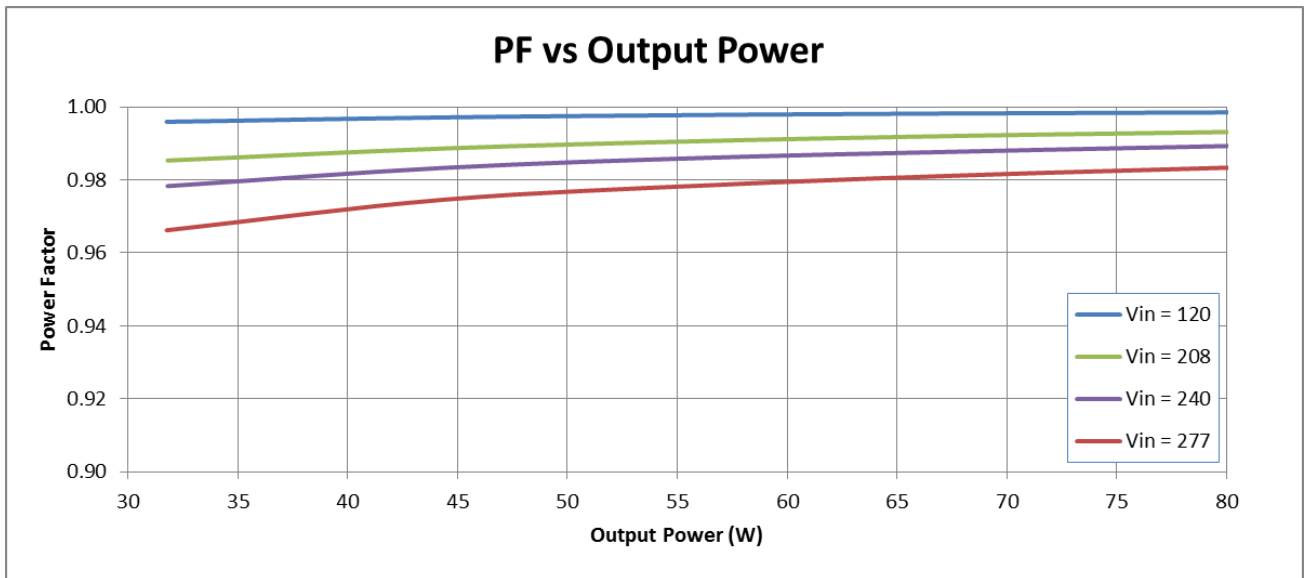
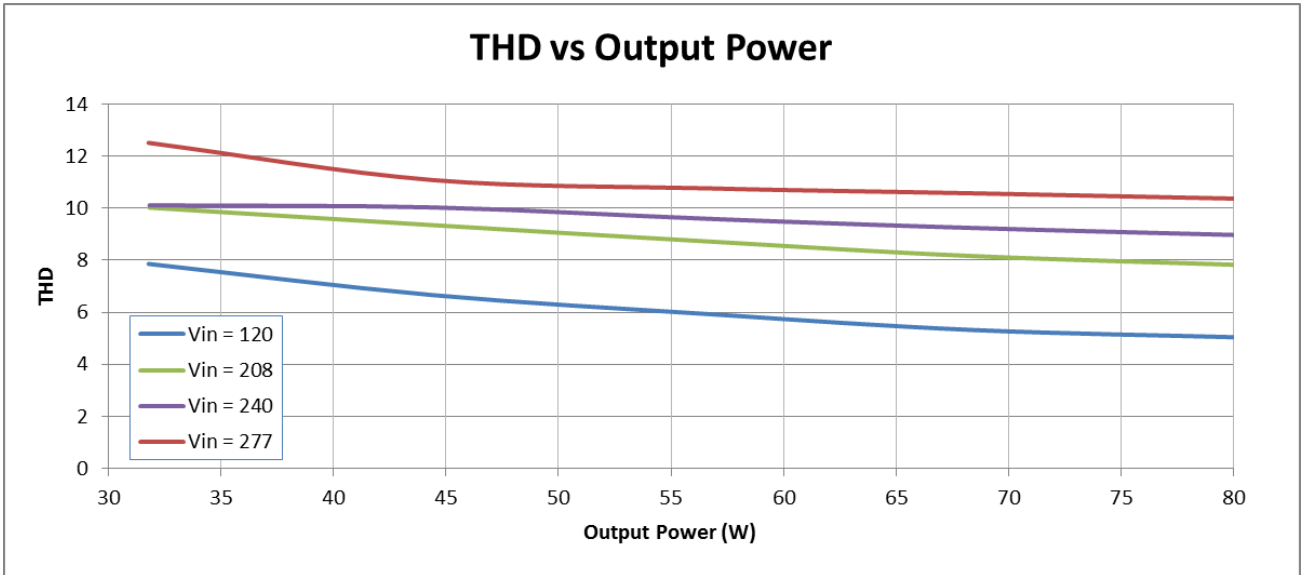


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Performance: Total Harmonic Distortion, & Power Factor

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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Transient Protection

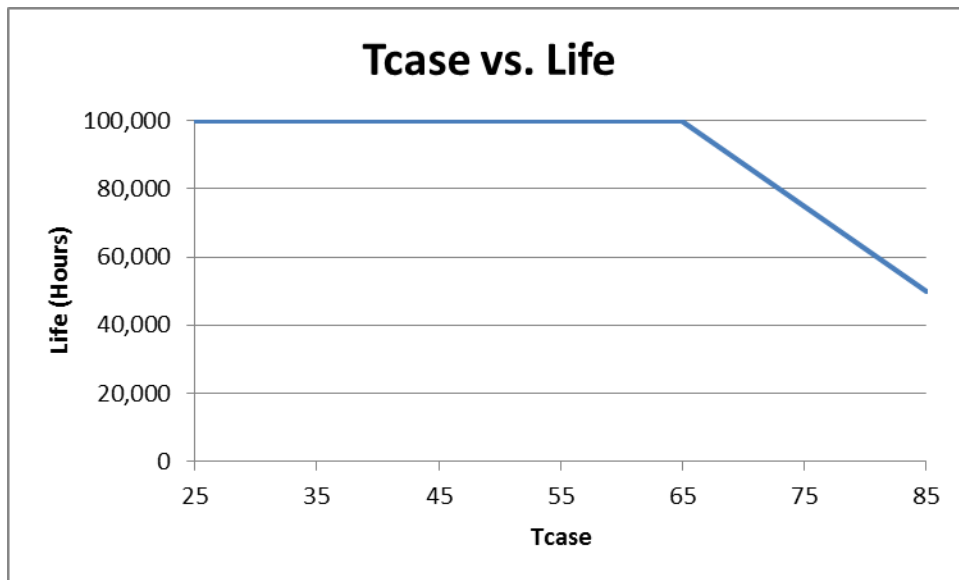
Transient	Differential Mode (L-N)	Common Mode (L-G, N-G, L&N-G)
IEEE C62.41 100kHz Ring Wave (200A maximum)	> 2.5kV	> 2.5kV

Isolation

Isolation	Input	Output	Digital Dim	Auxiliary	NTC	Enclosure
Input	-	2xU + 1kV	2xU + 1kV	2xU + 1kV	2xU + 1kV	2xU + 1kV
Output	2xU + 1kV	-	2xU + 1kV	Non-isolated	Non-isolated	700V
Digital Dim	2xU + 1kV	2xU + 1kV	-	2xU + 1kV	2xU + 1kV	2xU + 1kV
Auxiliary	2xU + 1kV	Non-isolated	2xU + 1kV	-	Non-isolated	700V
NTC	2xU + 1kV	Non-isolated	2xU + 1kV	Non-isolated	-	2xU + 1kV
Enclosure	2xU + 1kV	700V	2xU + 1kV	700V	2xU + 1kV	-

U = Max Input Voltage

Driver Lifetime vs. Driver Case Temperature



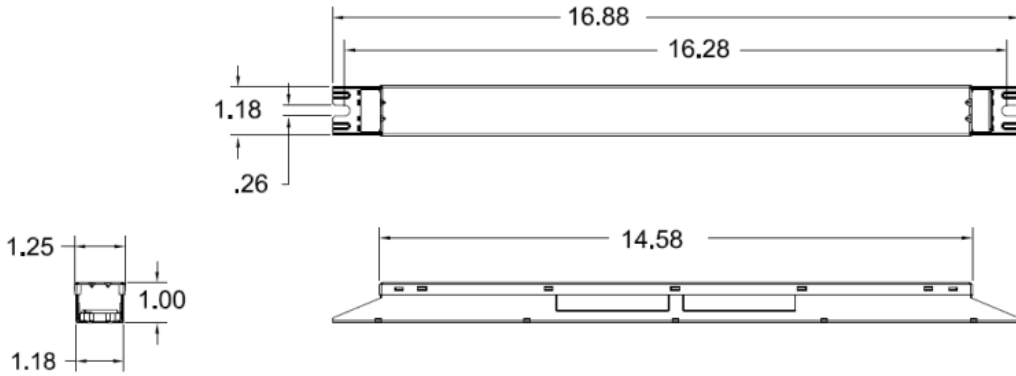
The Data curve provided predicts the LED Driver life based on the case temperature measured at the Tc location identified on the label or specification sheet. The Telecordia SR-332 standard is used to generate the prediction curves.



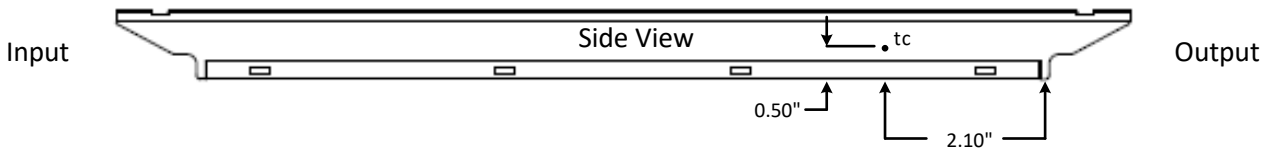
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Dimensional Diagram:



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.



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