### 12VDC Electronic Dimmable Driver Single & Multi-Output Specification Sheet

#### PRODUCT OVERVIEW

Multi-Dim LineDRIVE power supplies offer stable operation with standard line voltage and low voltage dimmer controls to make installation easy. Compatible with Triac, ELV, MLV and 0-10V dimmers for a wide array of applications. Dimming down to 1%.

#### **FEATURES**

- Output: Class 2, 12VDC, constant voltage
- Multi-output driver has 3 output channels for powering several Class 2 loads from one unit
- Input: 120V / 277V
- Dimmable: Triac, ELV, MLV, 0-10V, PWM dimming
- Minimum dimming: 1%
- Stable operation, flicker-free dimming
- Compatible with typical phase dimmers and 0-10V controls
- Integrated wiring compartments with separate line voltage and low voltage sections
- Line voltage compartment meets NEC code, up to (3) 12 AWG conductors
- Over-current, over-voltage and over-temperature protection



#### **ORDERING INFORMATION**

	] -		-		]		-	
Catalog No.		Series		Туре		Watts		Voltage
LD		XD		UNV		20		12
						40		
						60		
						180		



Туре

Date

Project Name

Catalog #



Example: LD-XD-UNV20-12

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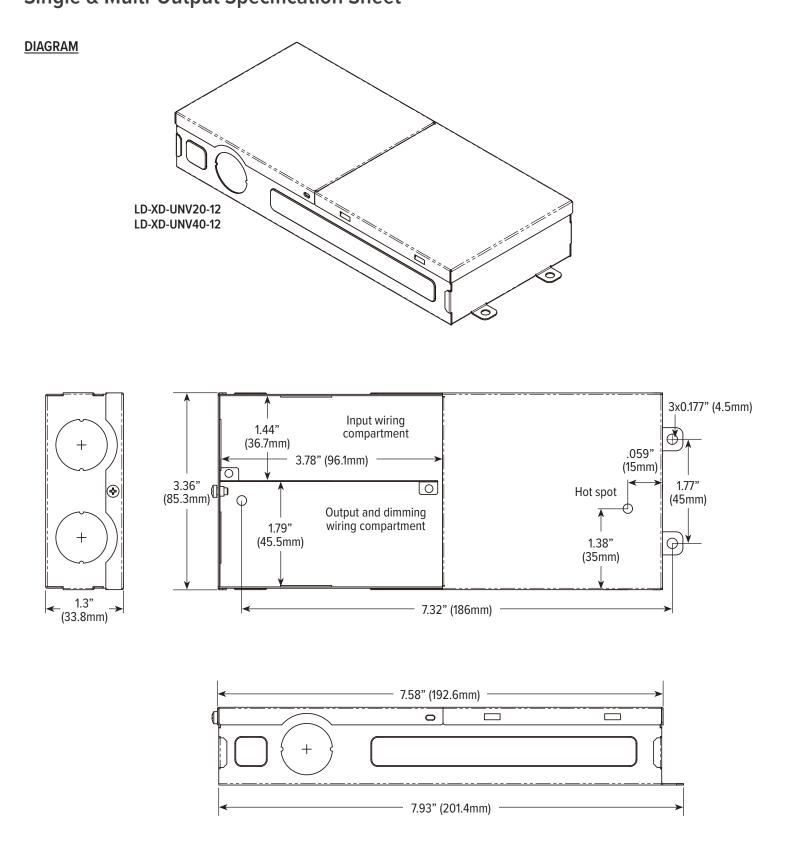


SPECIFICATIONS									
Model	LD-XD-UNV20-12	LD-XD-UNV40-12	LD-XD-UNV60-12	LD-XD-UNV180-12					
Dimensions	7.93"L x 3.36"W x 1.33"H	7.93"L x 3.36"W x 1.33"H	8.29"L x 4.10"W x 1.59"H	9.51"L x 6.35"W x 1.59"H					
Max output power	20W	40W	60W	(3 channels x 60W) 180W Total					
Outputs	1 Output Channel	1 Output Channel	1 Output Channel	3 Output Channels					
Output voltage	12V	12V	12V	12V					
Output current	Max 1.67A	Max 3.33A	Max 5A	3 channels x 5A Max					
Open circuit voltage	13V	13V	13V	13V					
Input voltage range	120/277VAC ± 10%, 50/60Hz	120/277VAC ± 10%, 50/60Hz	120/277VAC ± 10%, 50/60Hz	120/277VAC ± 10%, 50/60Hz					
Max input current	0.21A @120V, 0.13A@277V	0.43A @120V, 0.20A@277V	0.75A @120V, 0.33A@277V	1.90A @120V, 0.78A@277V					
Power factor (80~100% load)	> 0.94	> 0.94	> 0.94	> 0.90					
Efficiency at 120V / 277V	78% / 76%	79% / 79%	83% / 85%	87% / 88%					
Life rating	85,000 hours at 120Vac input, 100% load and 60°C case temperature	85,000 hours at 120Vac input, 100% load and 60°C case temperature	85,000 hours at 120Vac input, 100% load and 60°C case temperature	90,000 hours at 120Vac input, 100% load and 60°C case temperature					
Loading	Recommended minimum: for best dimming performance: 10% for ELV, Triac, 0-10V, PWM dimming, 40% for MLV dimming. Maximum: 100%								
Dimming	Minimum dimming: 1% Phase dimming only at 120VAC (Triac, ELV, MLV) Low voltage dimming at 120VAC or 277VAC (0-10V, 10V PWM dimming)								
THD (80~100% load)	< 20%								
Load regulation	± 5%								
Line regulation	± 5%								
Turn-on delay time	< 0.5s								
Surge rating	2.5KV for Combination Wave / Ring Wave								
Protection	Over voltage protection: Hiccup mode. Protection will trigger when load voltage exceed specified output voltage and will auto recover after the fault mode is removed. Over current protection: Hiccup mode. Protection will trigger when load current exceed specified output current and will auto recover after the fault mode is removed. Short circuit protection: Hiccup mode. Protection will trigger when short circuit and will auto recover after the fault mode is removed. Over temperature protection: Protection will trigger when driver overheat and auto-recovery when cooled down.								
Certifications / Compliance	UL listed for US and Canada (Complies with UL 8750, CSA C22.2 No 250) UL Class 2 (low voltage output) UL type HL (hazardous location, Class I, Division 2) FCC, 47CFR Part 15, Class B (consumer limit) Title 24 (JA8) certified								
Maximum case temperature	90°C								
Operating temperature	-40°F to 140°F (-40°C to 60°C)								
Humidity	5% to 95%								
Application	IP20, indoor dry and damp locations								
Cooling	Free air convection								
Input leads	12", UL 1316/1015 #18AWG (Black, White and Green)								
Output leads	12", UL 1316 #18AWG (Red and Blue)								
Dimming leads	12", UL 1316/1430 #22AWG (Purple and	d Pink)							
Case	Black powder coated steel	Black powder coated steel							



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### 12VDC Electronic Dimmable Driver Single & Multi-Output Specification Sheet

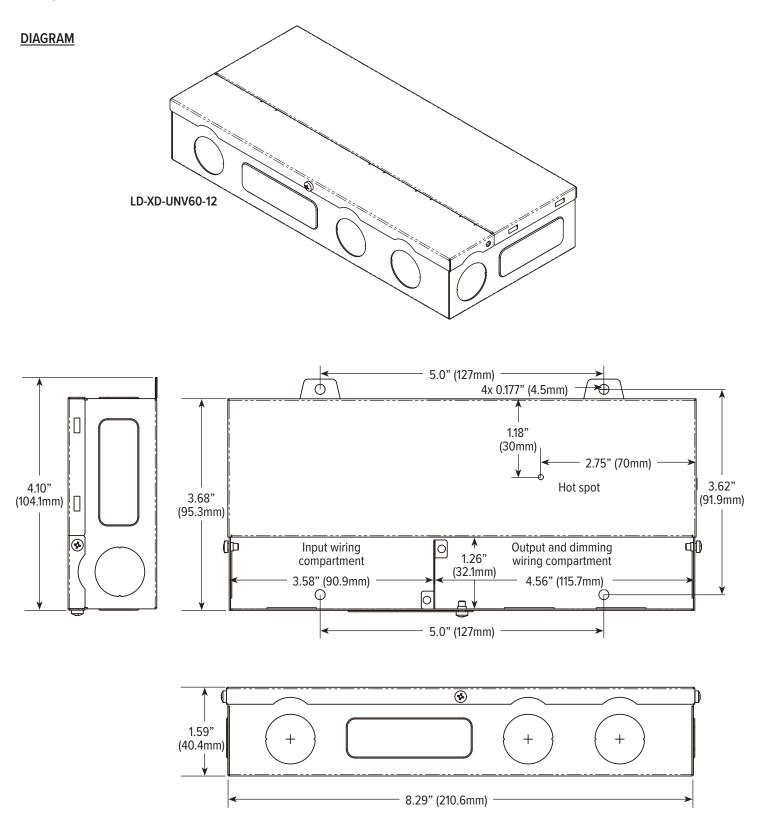


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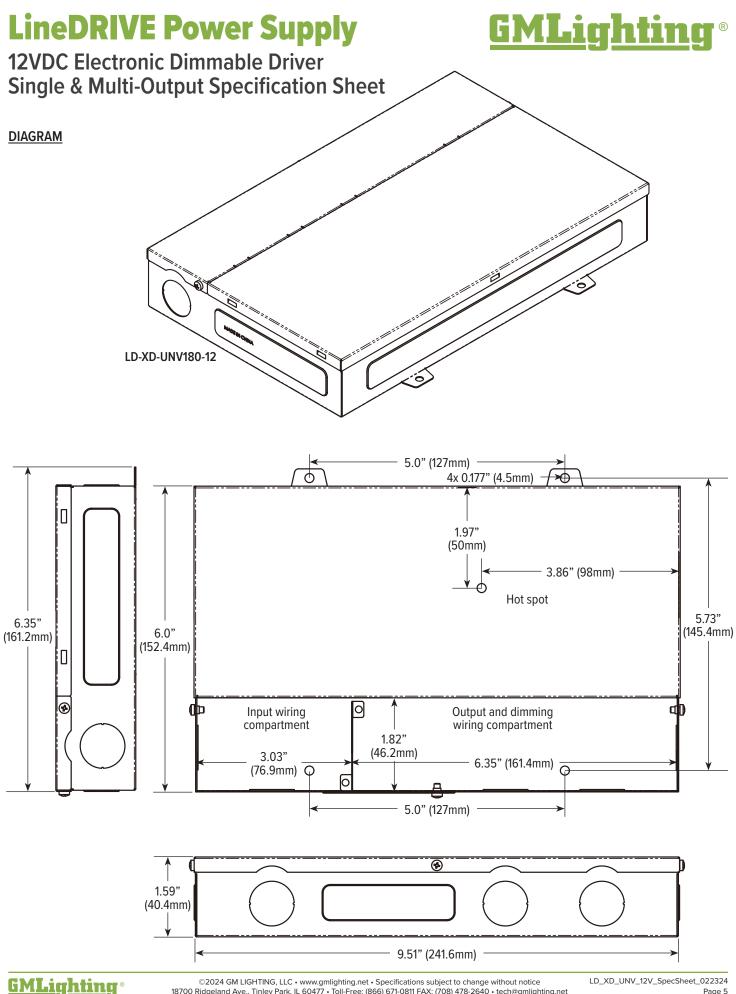


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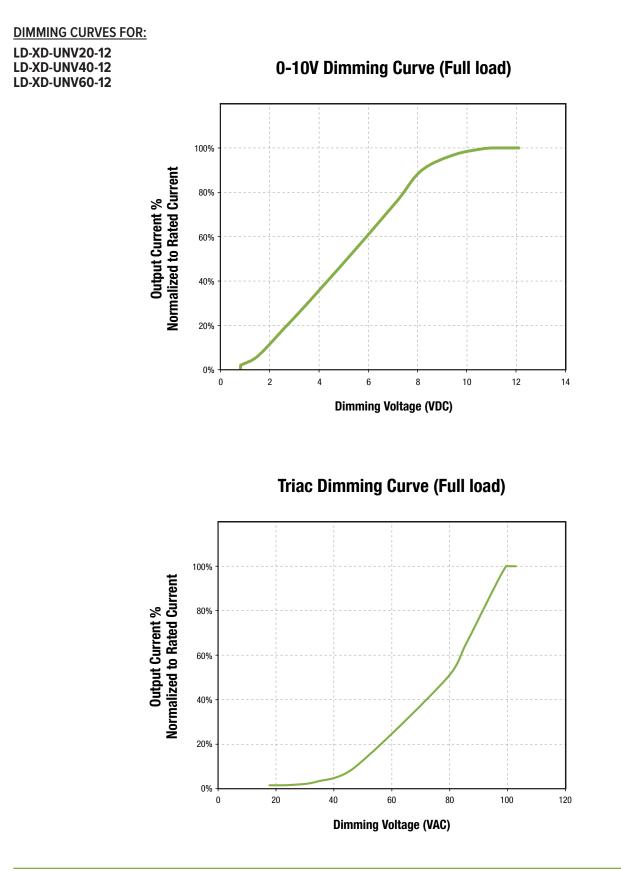


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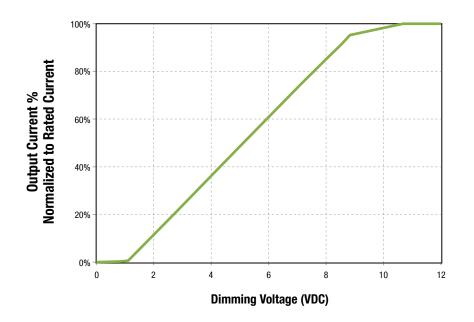


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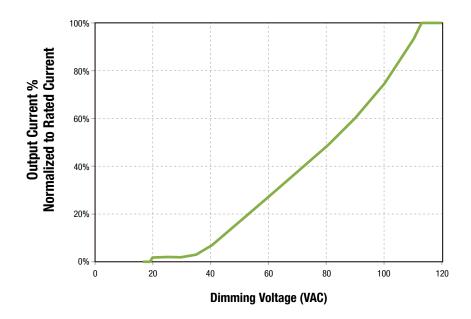
#### DIMMING CURVES FOR:

LD-XD-UNV180-12

#### 0-10V Dimming Curve (Full load)



**Triac Dimming Curve (Full load)** 



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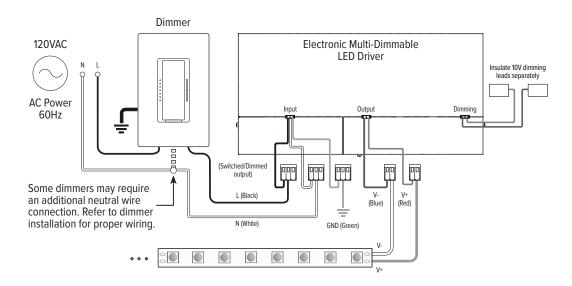
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#### WIRING DIAGRAMS FOR:

LD-XD-UNV20-12 LD-XD-UNV40-12 LD-XD-UNV60-12

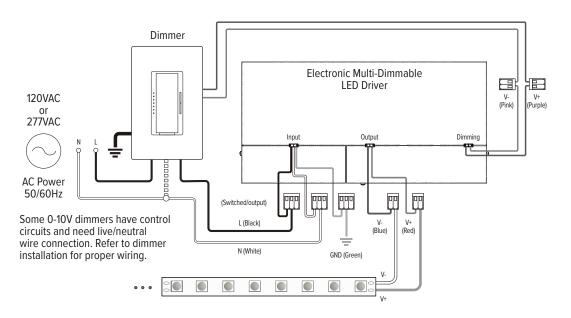
The following diagrams are provided as example system designs. Install in accordance with national and local electrical code regulations.

See LED load specifications for maximum series run limits. Be sure to match driver output voltage to load voltage.



#### Connect with ELV/MLV/Triac Dimmer (120VAC input only)

Connect with 0-10V, 10V PVM Dimmer (120VAC or 277VAC input)



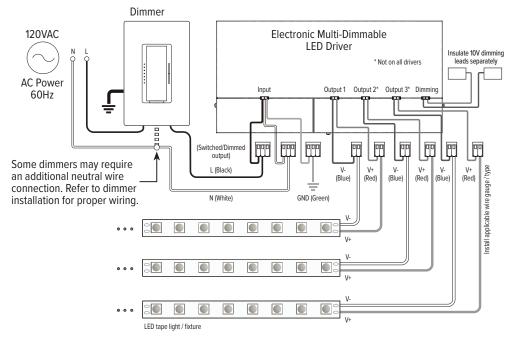


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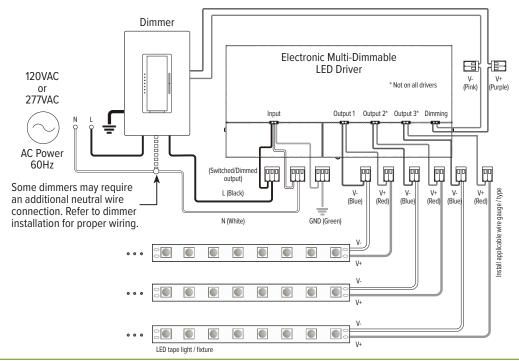
#### LD-XD-UNV180-12

The following diagrams are provided as example system designs. Install in accordance with national and local electrical code regulations. **CAUTION:** Do not connect output leads together for drivers with 2 or 3 sets of outputs. Keep each set of output leads separated. See LED load specifications for maximum series run limits. Be sure to match driver output voltage to load voltage.



#### Connect with ELV/MLV/Triac Dimmer (120VAC input only)

Connect with 0-10V, 10V PVM Dimmer (120VAC or 277VAC input)





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