

LineDRIVE Power Supply

24VDC Electronic Dimmable Multi-Output Drivers Specification Sheet



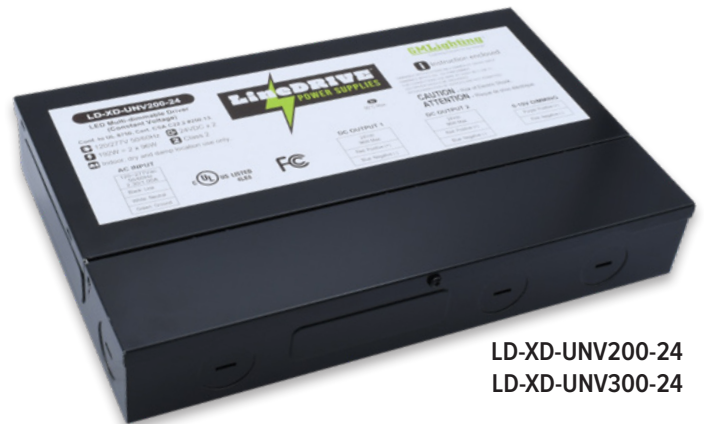
Project Name	Type
Catalog #	Date

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, 24VDC, constant voltage
- Multi-output drivers have 2 or 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



LD-XD-UNV200-24
LD-XD-UNV300-24

ORDERING INFORMATION

Example: LD-XD-UNV200-24

Catalog No.	Series	Type	Watts	Voltage
LD	XD	UNV	200	24
			300	

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LD-XD-UNV200-24
LD-XD-UNV300-24

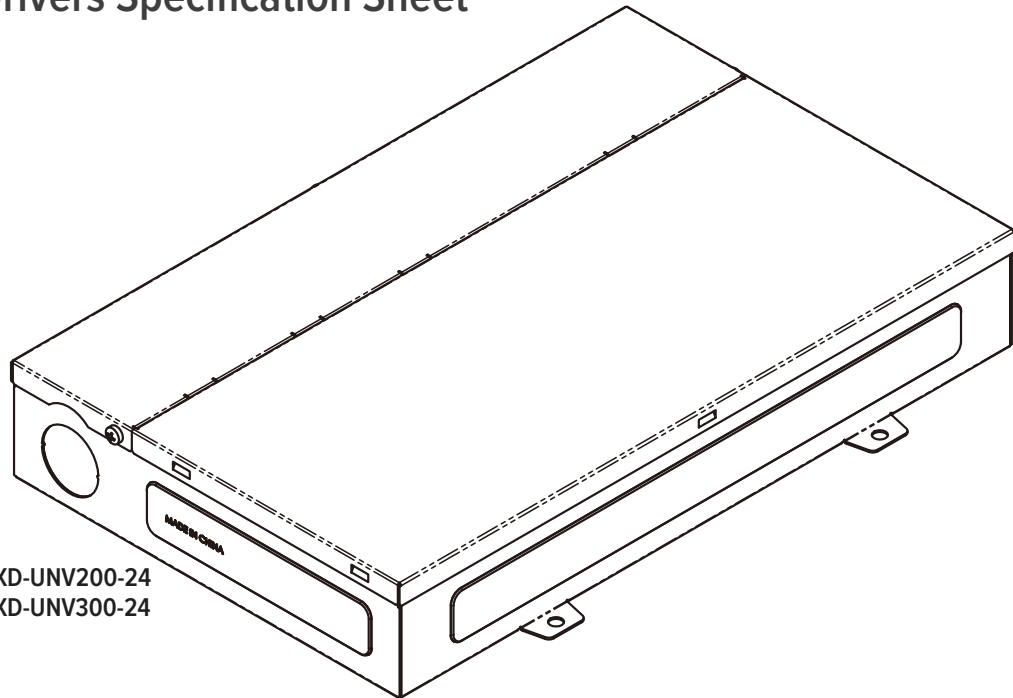
SPECIFICATIONS		
Model	LD-XD-UNV200-24	LD-XD-UNV300-24
Dimensions	9.51"L x 6.35"W x 1.59"H	9.51"L x 6.35"W x 1.59"H
Max output power	(2 channels x 96W) 192W Total	(3 channels x 96W) 288W Total
Outputs	2 separate channels	3 separate channels
Output voltage	24V	24V
Output current	(2 channels x 4A Max)	(3 channels x 4A Max)
Open circuit voltage	25V	25V
Input voltage range	120/277VAC ± 10%, 50/60Hz	120/277VAC ± 10%, 50/60Hz
Max input current	2.30A @120V, 1.00A@277V	3.00A @120V, X.XXA@277V
Power factor (80~100% load)	> 0.90	> 0.90
Efficiency at 120V / 277V	89% / 91%	90% / 92%
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%	
Life rating	90,000 hours at 120Vac input, 100% load and 60°C case temperature	
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 Pink)	
Case	Black powder coated steel	

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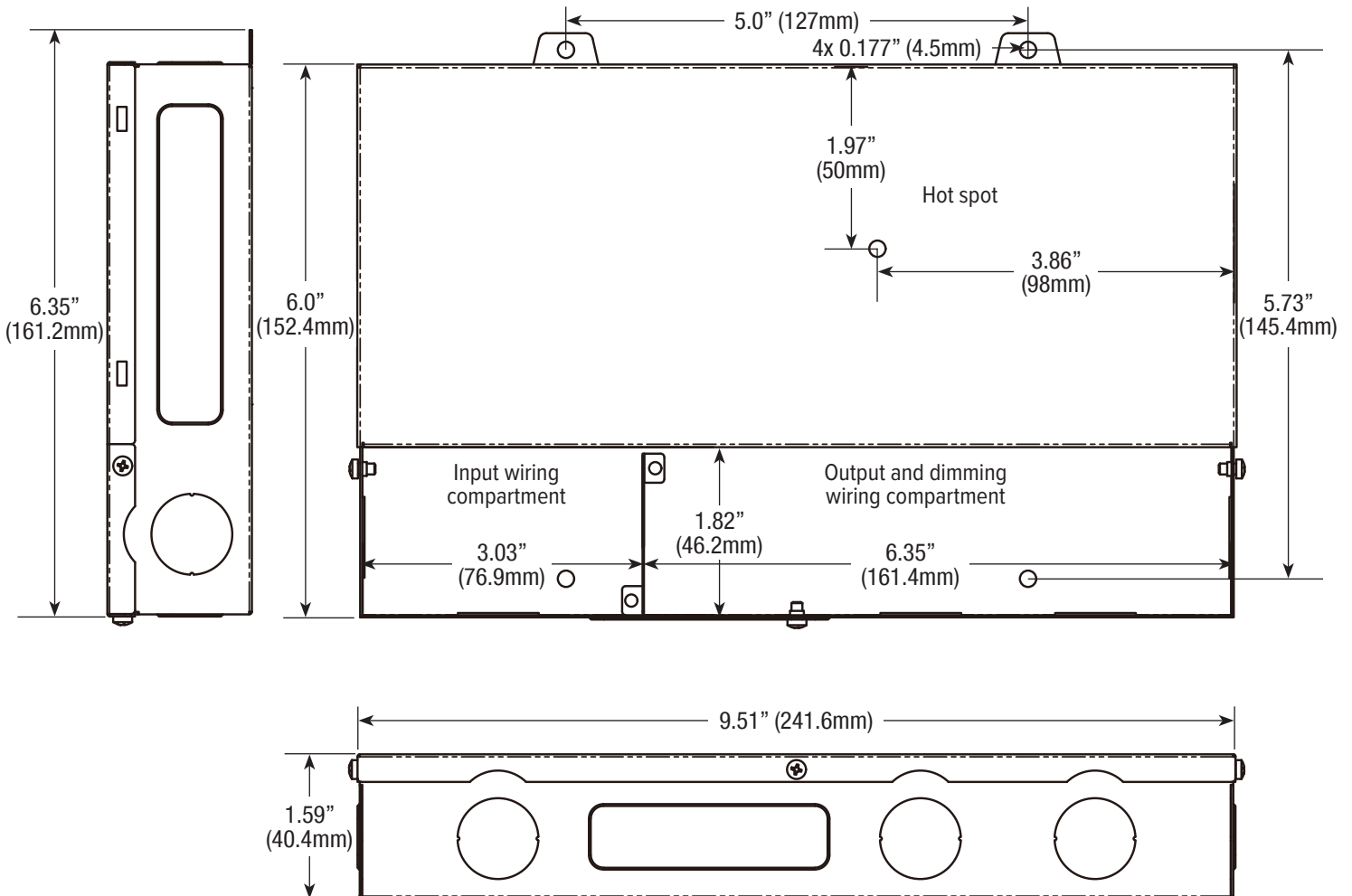


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DIAGRAM



LD-XD-UNV200-24
LD-XD-UNV300-24



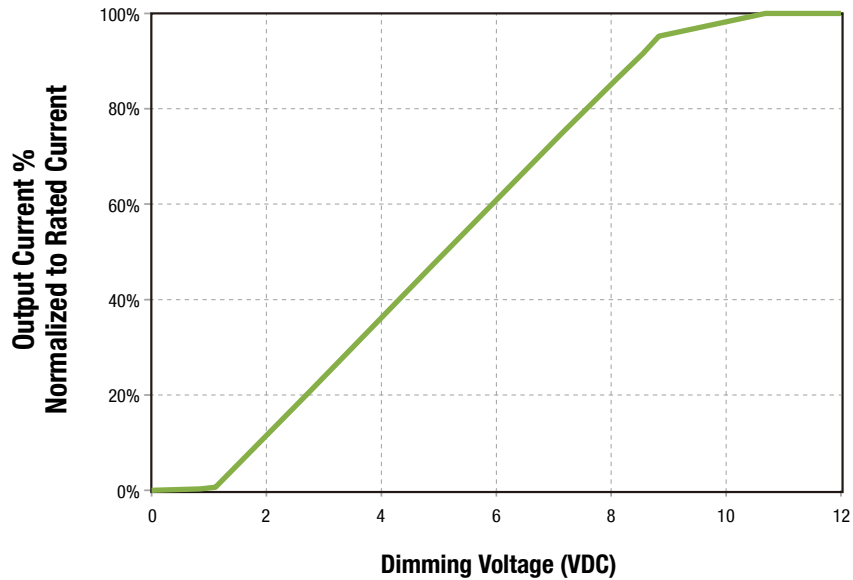
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DIMMING CURVES FOR:

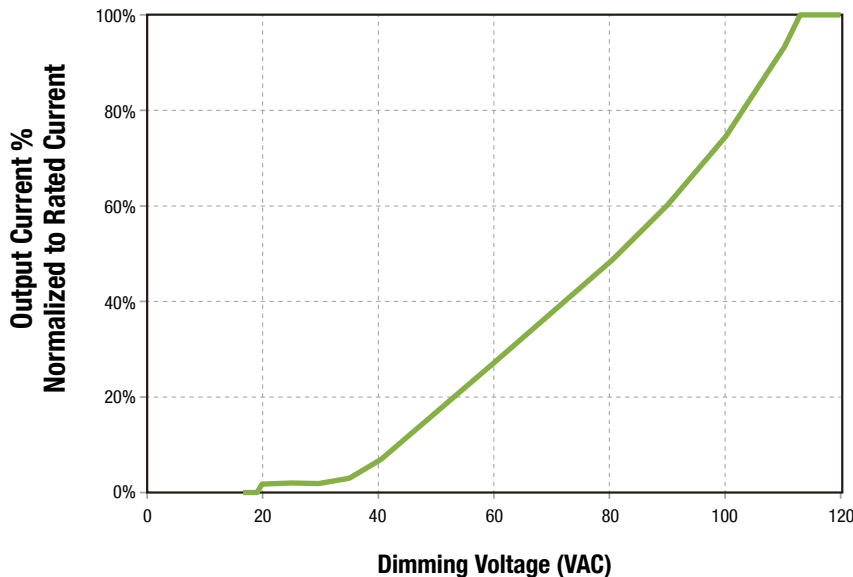
LD-XD-UNV200-24

LD-XD-UNV300-24

0-10V Dimming Curve (Full load)



Triac Dimming Curve (Full load)



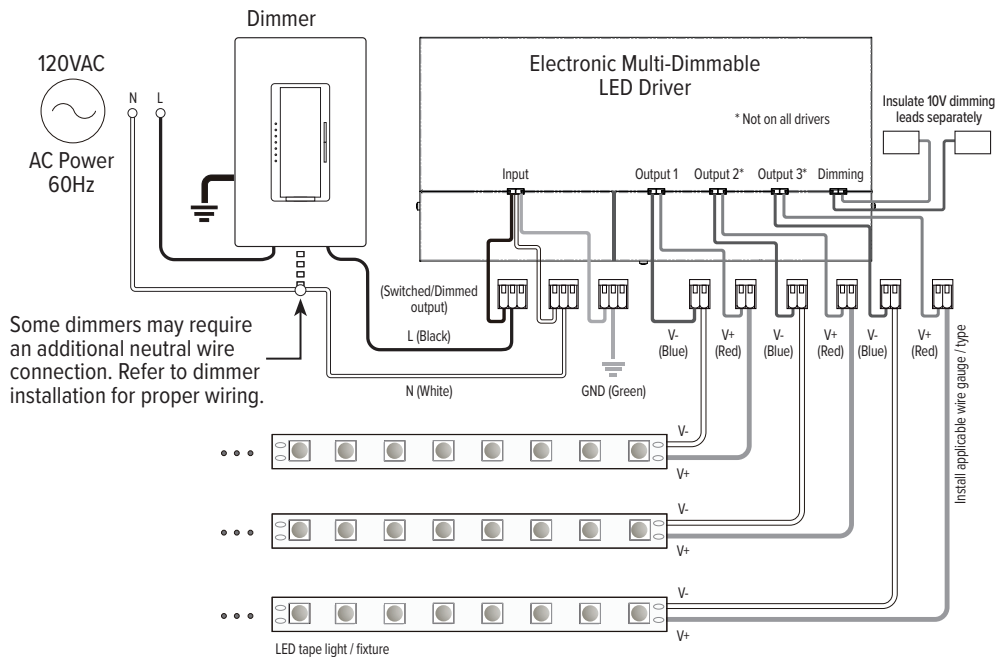
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WIRING DIAGRAMS

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)

