



0-10V/ELV/MLV 3-IN-1 DIMMABLE DRIVERS

These high-efficiency universal constant voltage output drivers provide smooth, flicker-free LED dimming. They are compatible with 0-10 V, ELV (reverse phase), TRIAC or MLV (forward phase) and PWM dimming and feature short circuit, overload and overcurrent protections. With a sturdy metal enclosure, these Class 2 output drivers are rated IP65 for dry, damp and wet locations.

- 24 VDC, 120-277 VAC
- Dimming: 0-10V, TRIAC, ELV/MLV, PWM
- Flicker free
- Short circuit, overload, overcurrent protection with auto recovery
- Class 2 output
- IP65 rated for dry, damp and wet locations
- Metal case
- UL Listed
- 5-year warranty



RoHS

Class 2

IP65

ORDERING GUIDE

Category	Voltage	Wattage	Dimming Option
DRVW	24		TRI010
DRVW - Waterproof Driver	24 - 24 VDC Output	60 - 60 W 96 - 96 W 288 - 288 W (3 x 96 W)	TRI010 - 0-10V, ELV, MLV

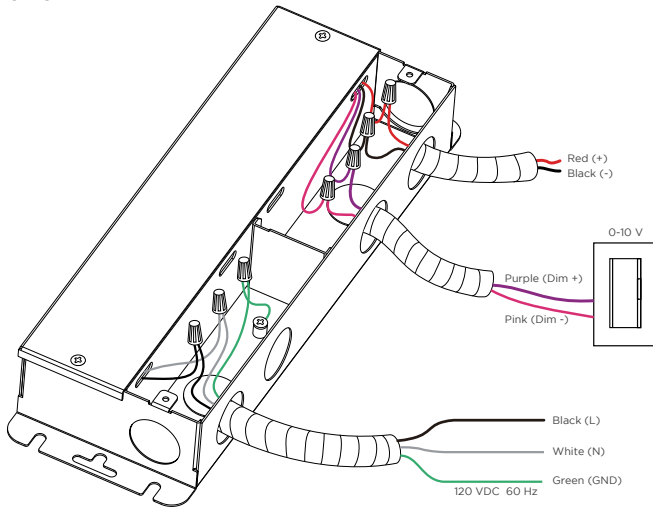
SPECIFICATIONS

Wattage	60 W	96 W	288W
Input Voltage	120-277 VAC	120-277 VAC	120-277 VAC
Input Current	0.34-0.7 A max.	0.5-1.1 A max.	1.2-2.8 A max.
Inrush Current Ipeak	14 A @ 277 VAC, 15 A @ 277 VAC	18 A @ 120 VAC, 40 A @ 277 VAC	50 A @ 120 VAC
Frequency Range	50/60 Hz	50/60 Hz	50/60 Hz
THD	< 15% @ 120 VAC, < 25% @ 277 VAC	< 5% @ 120 VAC, < 10% @ 277 VAC	< 10% @ 120 VAC, < 15% @ 277 VAC
Efficacy	87% @ 120 VAC, 89% @ 277 VAC (full load)	≥ 86% @ 120 VAC, ≥ 88% @ 277 VAC (full load)	≥ 90% @ 120 VAC (full load)
PF	≥ 0.98 @ 120 VAC, 0.9 @ 277 VAC (full load)	≥ 0.98 @ 120 VAC, 0.95 @ 277 VAC (full load)	≥ 0.95 @ 120 VAC, 0.95 @ 277 VAC (full load)
Output Voltage	24 VDC	24 VDC	24 VDC
Ripple	< 1%	< 1%	< 1%
Output Current	2.5 A	4 A	4 A per channel (12 A total max.)
Protection	Short circuit, overload, overcurrent protection with auto recovery		
PWM Frequency	4 kHz	4 kHz	4 kHz
Dimming Type	0/1-10 V, Potentiometer, PWM, Triac/ELV/MLV (@ 120 VAC, 60 Hz)		
Dimming Curve	Logarithmic		
Dimming Range	0-10 V: 0.5-100%, Triac/ELV/MLV: 1-100%	0-10 V: 0.5-100%, Triac/ELV/MLV: 1-100%	0-10 V: 0.1-100%, Triac/ELV/MLV: 1-100%
Channel	1	1	3
Flicker	Flicker free	Flicker free	Flicker free
Operating Temperature	-4 – 140 °F (-20 – 60 °C)	-4 – 140 °F (-20 – 60 °C)	-4 – 140 °F (-20 – 60 °C)
Storage Temperature	-40 – 185 °F (-40 – 85 °C)	-40 – 185 °F (-40 – 85 °C)	-40 – 194 °F (-40 – 90 °C)
IP Rating	IP65 for dry, damp and wet locations	IP65 for dry, damp and wet locations	IP65 for dry, damp and wet locations
Lifetime	50,000 hours @ tc 185 °F (85 °C)	50,000 hours @ tc 176 °F (80 °C)	50,000 hours @ tc 185 °F (85 °C)
Surge Protection	L-N: 2.5 kV, L-N-PG: 2.5 kV	L-N: 2.5 kV, L-N-PG: 2.5 kV	L-N: 2.5 kV, L-N-PG: 2.5 kV
Dimensions (LxWxH)	9.61 x 4.17 x 1.63 in. (244 x 106 x 41.5 mm)	9.61 x 4.17 x 1.63 in. (244 x 106 x 41.5 mm)	10.24 x 5.2 x 2.05 in. (260 x 132 x 52 mm)
Casing	Metal		
Safety Standard	UL8750, UL1310, IEC 61000-4-2-3-4-5-6-8-11		
Warranty	5 years		

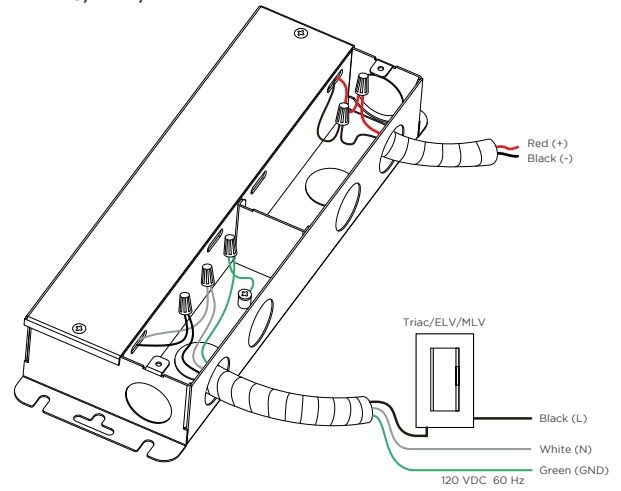
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WIRING DIAGRAM - 60 W & 96 W

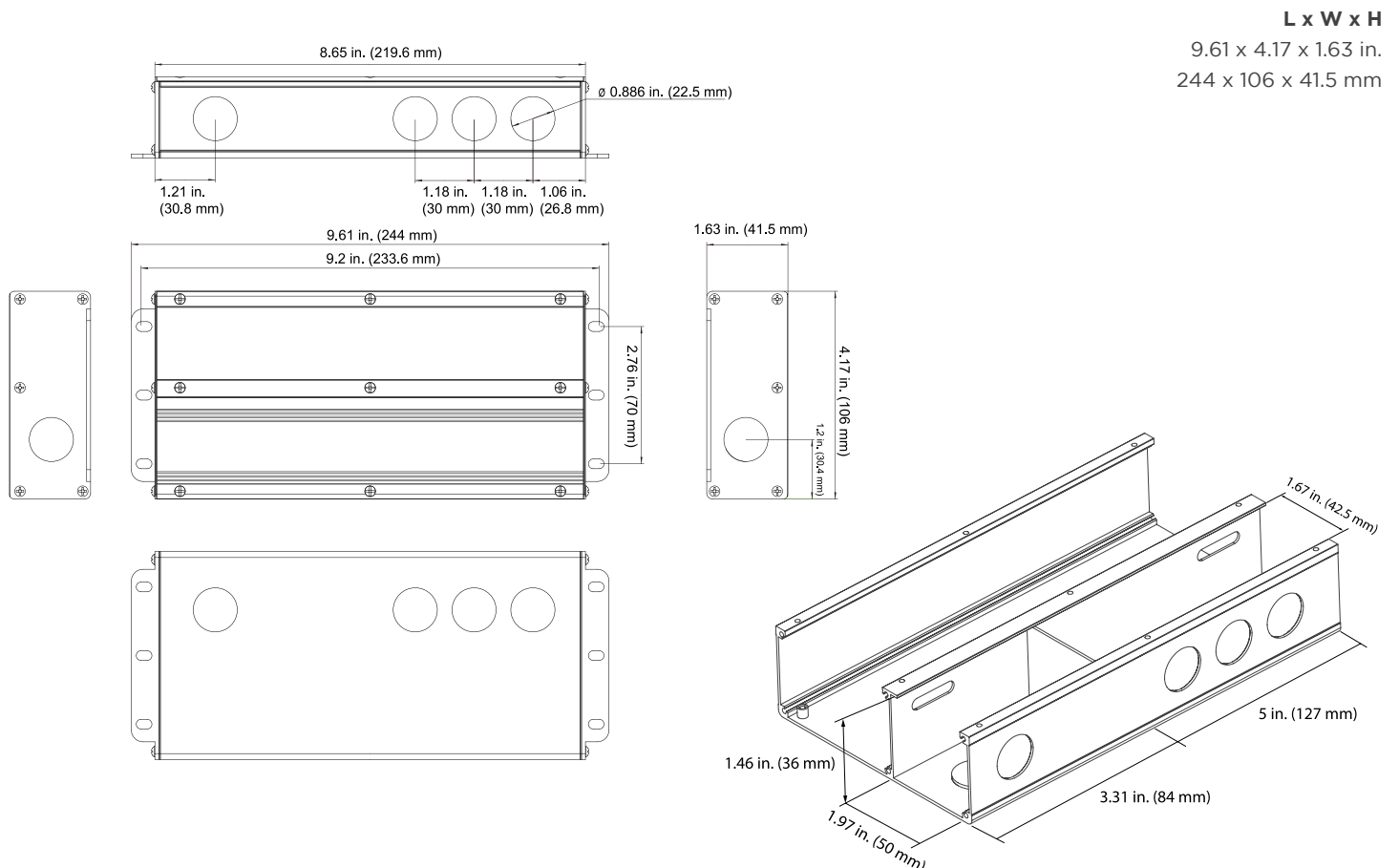
0-10 V



TRIAC/ELV/MLV



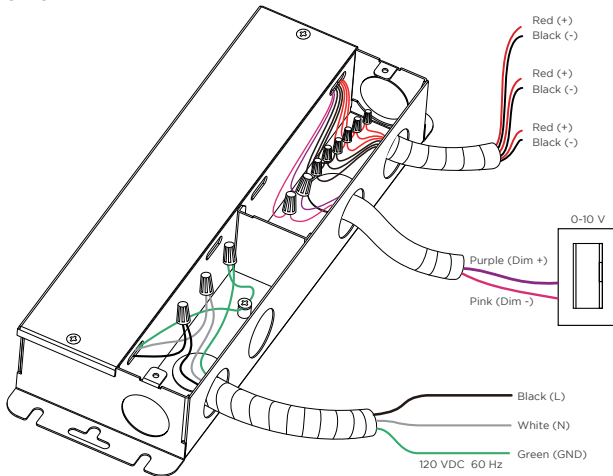
DIMENSIONS - 60 W & 96 W



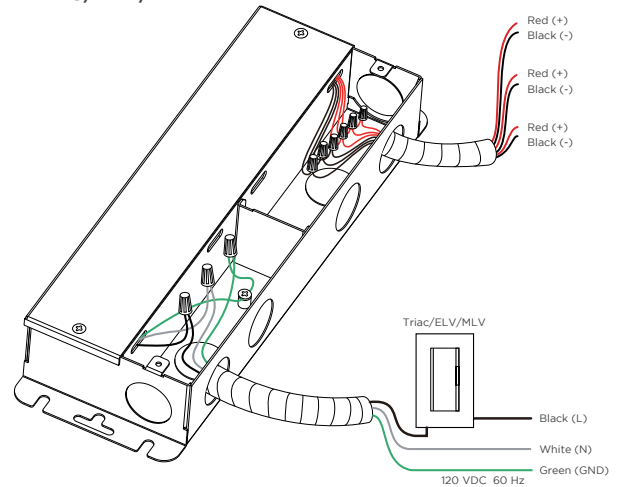
NOTE: To prevent exposure to the maximum allowable temperatures for these drivers, the suggested installation spacing between drivers is at least 4 in. (101.6 mm) side-to-side when the distance to the sidewall and top of the enclosure is 2 in. (50.8 mm). When the distance to the sidewall and top of the enclosure is 6 in. (152.4 mm), maintain at least 2 in. (50.8 mm) side-to-side spacing between drivers. Drivers should be placed at a minimum of 1 in. (25.4 mm) apart when arranging them end-to-end regardless of the enclosure size.

WIRING DIAGRAM - 288 W

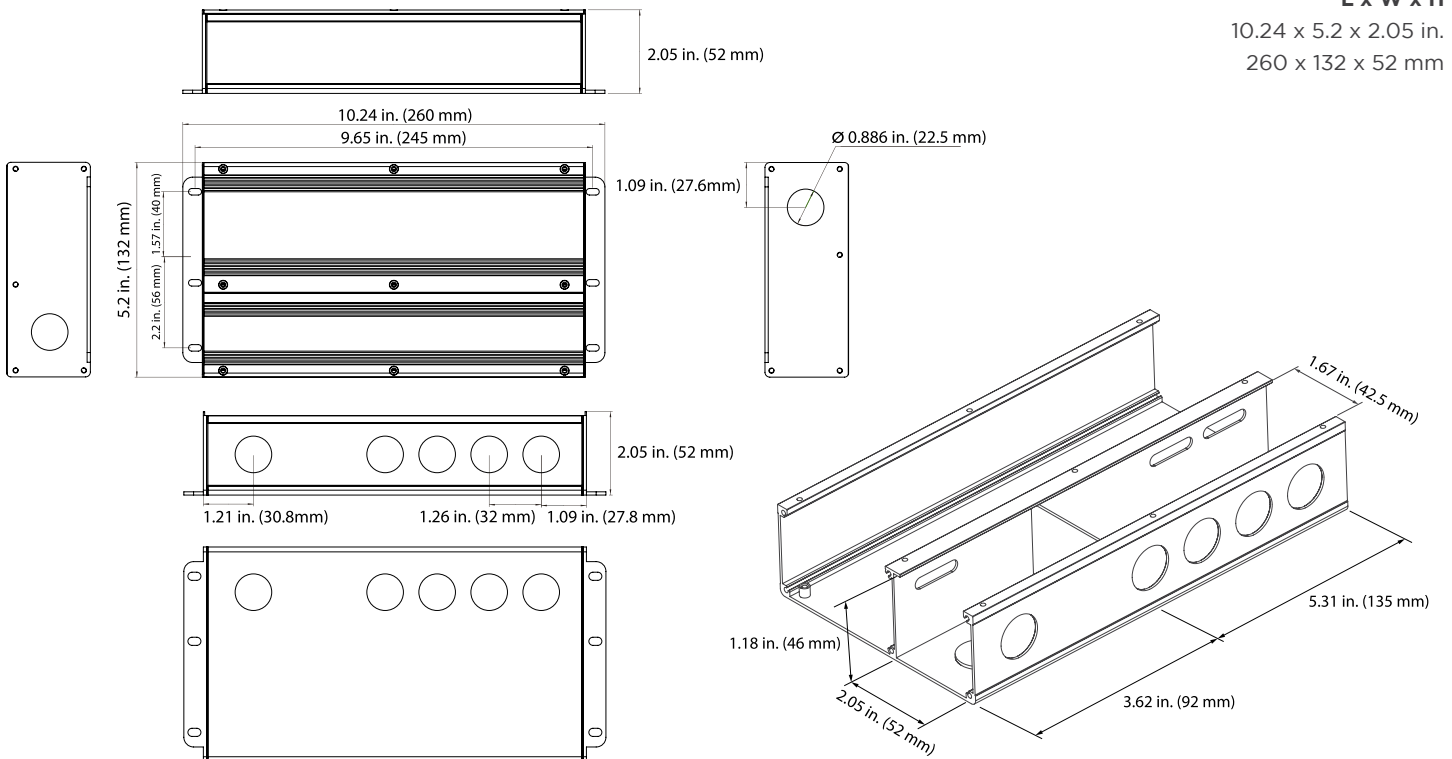
0-10 V



TRIAC/ELV/MLV



DIMENSIONS - 288 W



NOTE: To prevent exposure to the maximum allowable temperatures for these drivers, the suggested installation spacing between drivers is at least 4 in. (101.6 mm) side-to-side when the distance to the sidewall and top of the enclosure is 2 in. (50.8 mm). When the distance to the sidewall and top of the enclosure is 6 in. (152.4 mm), maintain at least 2 in. (50.8 mm) side-to-side spacing between drivers. Drivers should be placed at a minimum of 1 in. (25.4 mm) apart when arranging them end-to-end regardless of the enclosure size.

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GLOBAL HQ

320 Murray Hill Pkwy
East Rutherford, NJ 07073
U.S.
T: (+1) 212 629 6830
E: Sales-US@GENLEDBrands.com

EUROPEAN HQ

Hogeweyselaan 119
1382 JK Weesp
Netherlands
T: (+31) 346 235 000
E: SalesEurope@GENLEDBrands.com

MEINA HQ

PO Box 371378, #823, Building 4EA
Dubai Airport Free Zone
Dubai, UAE
T: (+971) 4 701 7901
E: SalesMEINA@genledbrands.com

ASIA-PACIFIC HQ

Room 402, Building D
Shenshi Tongchuang Science and Technology Park
No. 16 Hongyin Road
Xingqiang Community, Xinhua Street
Guangming District, Shenzhen, China 518107
T: (+86) 755 8529 0710
E: Sales-Pacific@GENLEDBrands.com