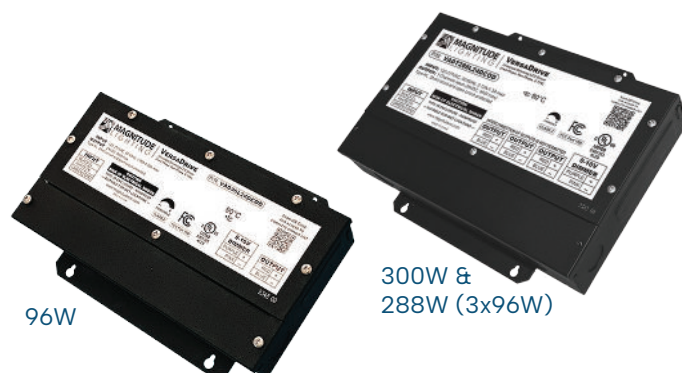




Customer Care
(714) 312-5080
customer care@magnitudeinc.com



VersaDrive Series Specification Sheet

96W • 288W (3x96W) • 300W
24V Constant Voltage
Universal Dimming LED Driver

Key Features

- PWM output for consistent performance with different types of LED tape
- Documented phase dim performance with wide variety of dimmers
- QR code enables quick access to dimming compatibility chart
- Current limiting overload protection
- UL lever connectors pre-installed to save time
- Stainless steel screws for corrosion protection

Specification Overview

- Universal dimming: Forward Phase (TRIAC), Reverse Phase (ELV), 0-10V, PWM, and Potentiometer
- Smooth flicker-free dimming down to 1%
- Universal input voltage 120 to 277VAC
- Constant Voltage 24VDC output
- IP65 and NEMA 3R rated for outdoor use
- UL listed for dry or wet location
- 5-year warranty

ORDERING INFORMATION

Part Number	Description
VAD96L24DCOD	VersaDrive 96W, 24VDC, 120-277VAC, 5-Way Dimming
VAD300L24DCOD	VersaDrive 300W, 24VDC, 120-277VAC, 5-Way Dimming
VADT288L24DCOD	VersaDrive 288W (3x96W), 24VDC, 120-277VAC, 5-Way Dimming

ENCLOSURE DETAILS

Dimensions	Material	Finish	Environmental
96W: 8.1"W x 5.6"H x 1.7"D (206mm x 142mm x 43mm)	Stamped Steel	Powder Coat	IP65, NEMA 3R
288W: 9.9"W x 7.6"H x 1.9"D (252mm x 193mm x 48mm)			
300W: 9.9"W x 7.6"H x 1.9"D (252mm x 193mm x 48mm)			

120-277V

24VDC

SELV

CLASS 2

IP65



PWM
DIM



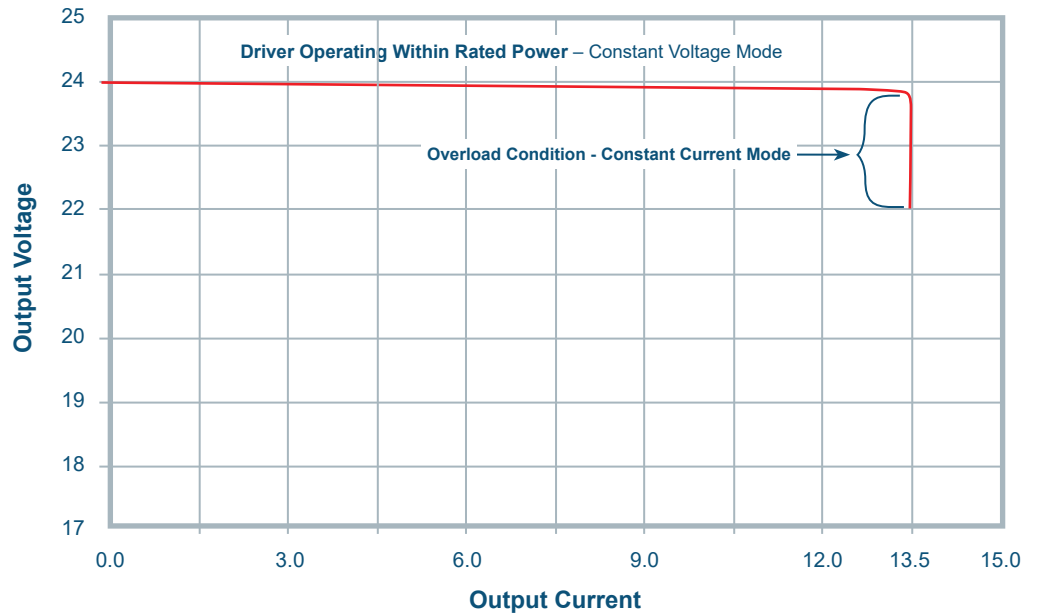
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SPECIFICATIONS			
Input	VAD96L24DCOD	VADT288L24DCOD	VAD300L24DCOD
Input Voltage Range	120 to 277VAC $\pm$ 10%	120 to 277VAC $\pm$ 10%	120 to 277VAC $\pm$ 10%
Input Frequency	50 / 60Hz	50 / 60Hz	50 / 60Hz
Input Current	1.05A @ 120V, 0.45A @ 277V	3.0A @ 120V, 1.8A @ 277V	3.0A @ 120V, 1.8A @ 277V
Inrush Current	80A @ 277V	90A @ 277V	90A @ 277V
Efficiency	84% @120V, 87% @ 277V	91% @120V, 93% @ 277V	91% @120V, 93% @ 277V
Power Factor	277VAC, > 0.94 120VAC, > 0.94	277VAC, > 0.90 120VAC, > 0.90	277VAC, > 0.90 120VAC, > 0.90
THD	< 20%	< 20%	< 20%
Output			
Output Voltage	24VDC	24VDC per channel	24VDC
Maximum Load	96W	96W per channel (unloaded channels permitted)	300W
Output Current @ Maximum Load	4.1A	4.1A per channel	12.5A
Output Dimming Method / Frequency	PWM / 3.9 KHz	PWM / 3.9 KHz	PWM / 3.9 KHz
Flicker	California Title 24 / JA8	California Title 24 / JA8	California Title 24 / JA8
Output Ripple (Peak-to-Peak)	$\leq$ 8%	< 5%	< 5%
Line Regulation	$\pm$ 5%	$\pm$ 5%	$\pm$ 5%
Load Regulation	$\pm$ 5%	$\pm$ 5%	$\pm$ 5%
Current Output Tolerance @ Max. Load	N/A	$\pm$ 5% @ 100% Dim	N/A
Channel-to-Channel	N/A	$\pm$ 5% @ 50% Dim	N/A
Turn On Delay Time	< 0.5 sec	< 0.5 sec	< 0.5 sec
Environmental			
Ambient Operating Temperature	-40°C to 50°C (-40°F to 125°F)	-40°C to 50°C (-40°F to 125°F)	-40°C to 50°C (-40°F to 125°F)
Maximum Case Temp. (Tcase)	90°C (194°F)	90°C (194°F)	90°C (194°F)
Storage Temperature	-40°C to +85°C (-40°F to 185°F)	-40°C to +85°C (-40°F to 185°F)	-40°C to +85°C (-40°F to 185°F)
Ingress Protection (IP) / Enclosure Rating	IP65 / NEMA 3R Rated	IP65 / NEMA 3R Rated	IP65 / NEMA 3R Rated
Cover Screws	Stainless Steel	Stainless Steel	Stainless Steel
Expected Lifetime	$\geq$ 80,000 hrs @Tc $\leq$ 60°C	$\geq$ 80,000 hrs @Tc $\leq$ 60°C	$\geq$ 80,000 hrs @Tc $\leq$ 60°C
Dimming			
Dimming Style	Phase-Cut (120V) or 0-10V (120V to 277V)	Phase-Cut (120V) or 0-10V (120V to 277V)	Phase-Cut (120V) or 0-10V (120V to 277V)
Minimum Dimming Level	1%	1%	1%
Minimum Load for Dimming	8W	20W per Channel	40W
Dimming Curve	Linear	Linear	Linear
PWM Dimming Signal @ 10V Freq. Range	500Hz to 2Khz	500Hz to 2Khz	500Hz to 2Khz
Compliance	0-10V ANSI C137.1	0-10V ANSI C137.1	0-10V ANSI C137.1
Protection			
Over Voltage Protection	Yes	Yes	Yes
Over Temperature Protection	Yes / Auto-Recovery	Yes / Auto-Recovery	Yes / Auto-Recovery
Overload Protection	Yes / Current Limit	Yes / Current Limit	Yes / Current Limit
Short Circuit Protection	Yes / Auto-Recovery	Yes / Auto-Recovery	Yes / Auto-Recovery
Connectors			
Lever Style Connectors	Pre-installed, all wire leads	Pre-installed, all wire leads	Pre-installed, all wire leads
Listing	UL8750, Class 2, CSA C22.2 No. 250.13	UL8750, Class 2, CSA C22.2 No. 250.13	UL8750, Class 1, CSA C22.2 No. 250.13

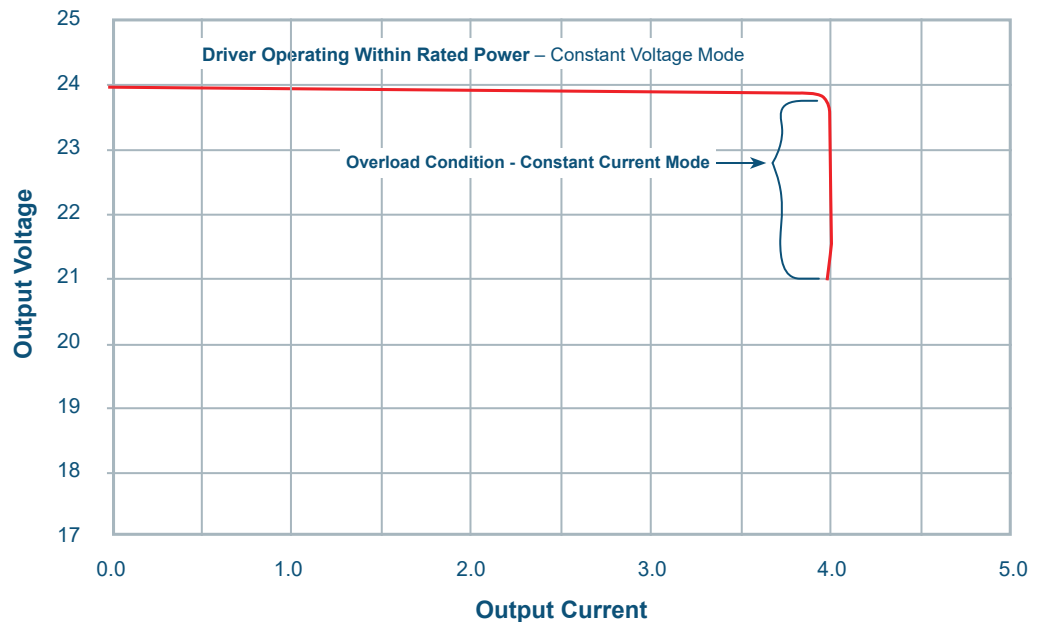
CURRENT LIMITING OVERLOAD PROTECTION

VersaDrive 300W
VAD300L24DCOD



VersaDrive 96W
VAD96L24DCOD

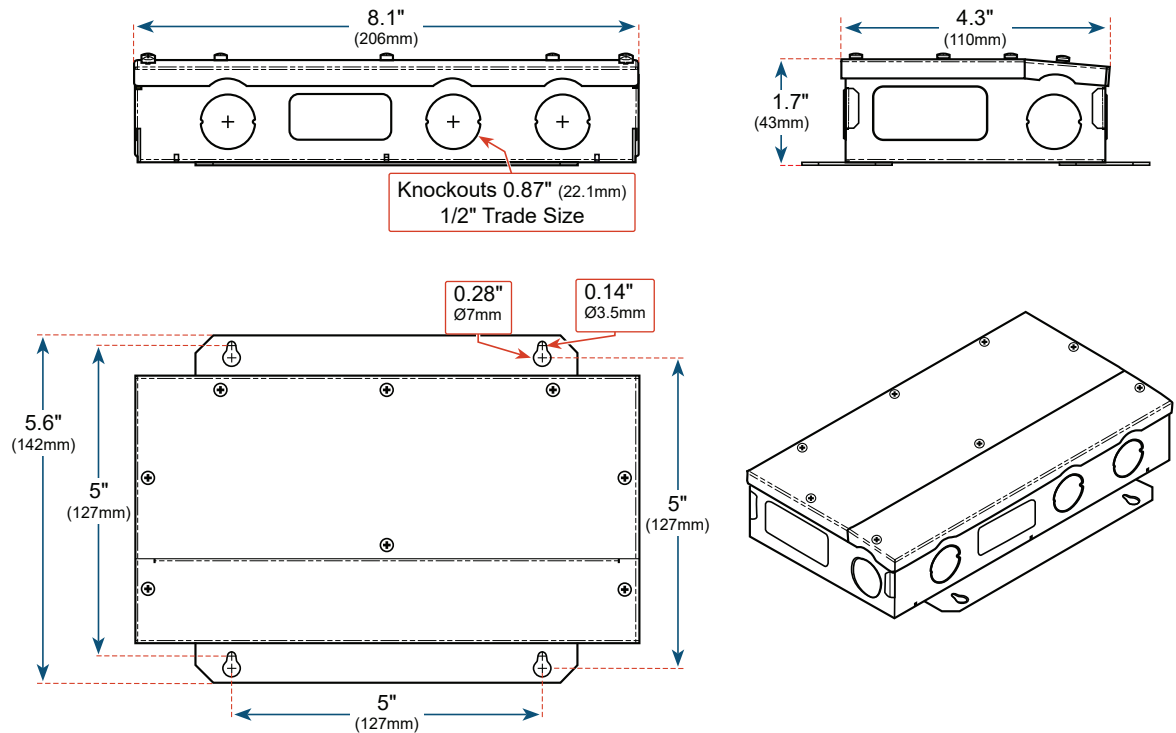
VersaDrive 288W
(3 x 96W)
VADT288L24DCOD



- With VersaDrive, installers and designers can use LED lighting loads that match it's full rated power. No derating is required
- VersaDrive's constant current overload protection avoids the problem of unwanted flashing or shut down due to the LED driver being at or near it's maximum rated output
- This protection feature makes slight reduction to the output voltage, but the current stays constant. It's the same effect as barely dimming the output to stay at the rated power
- The driver will not shut down upon an overload condition; no blinking lights and no driver resets

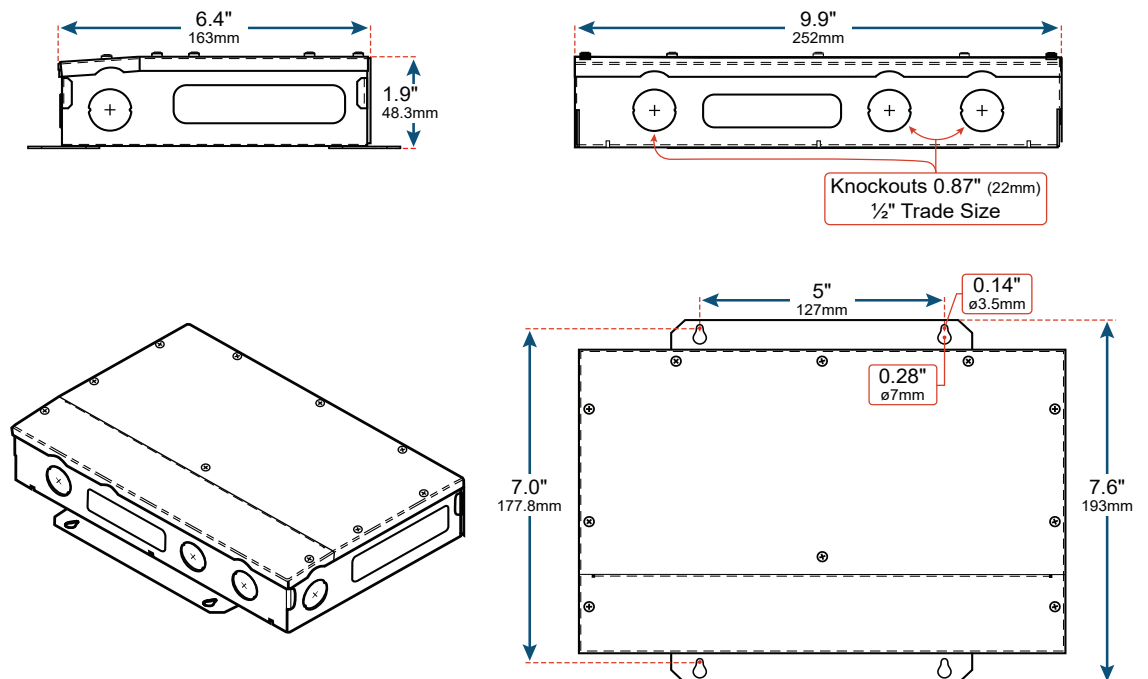
MECHANICAL DIAGRAMS

VersaDrive 96W
VAD96L24DCOD

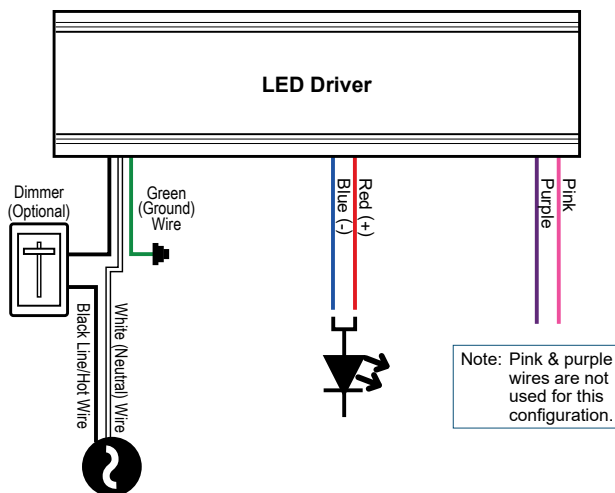


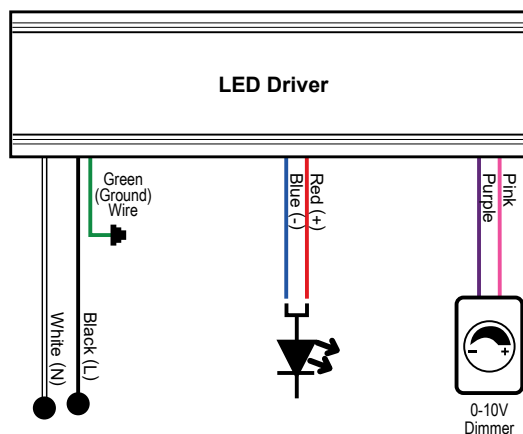
VersaDrive 288W
(3 x 96W)
VADT288L24DCOD

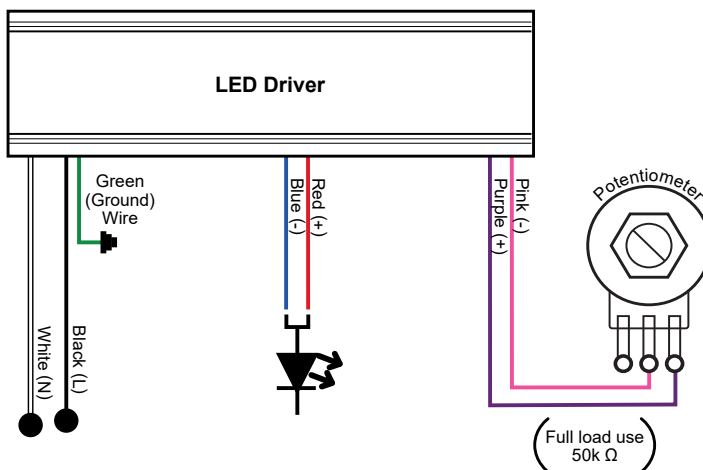
VersaDrive 300W
VAD300L24DCOD



WIRING DIAGRAMS
PHASE-CUT DIMMABLE
VersaDrive 96W
 VAD96L24DCOD

VersaDrive 300W
 VAD300L24DCOD

0-10V DIMMABLE
VersaDrive 96W
 VAD96L24DCOD

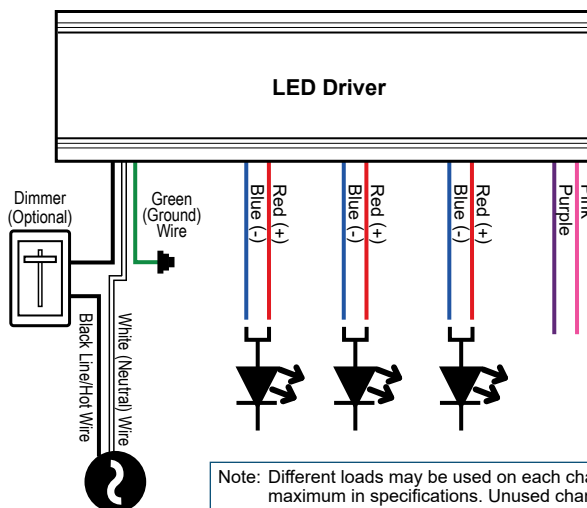
VersaDrive 300W
 VAD300L24DCOD

POTENTIOMETER DIMMABLE
VersaDrive 96W
 VAD96L24DCOD

VersaDrive 300W
 VAD300L24DCOD


WIRING DIAGRAMS

PHASE-CUT DIMMABLE

VersaDrive 288W
(96W x 3)
VADT288L24DCOD

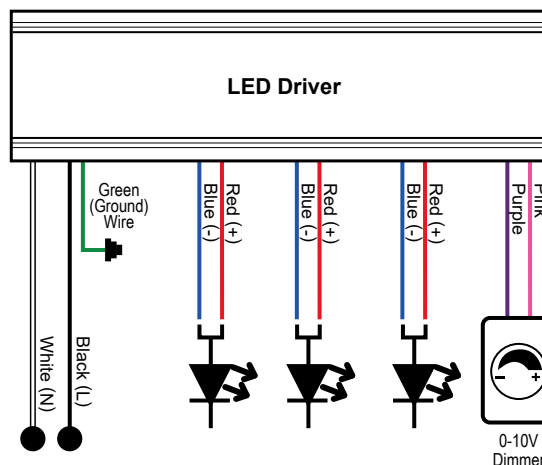


Note: Pink & purple wires are not used for this configuration.

Note: Different loads may be used on each channel, subject to minimum/maximum in specifications. Unused channels are okay.

0-10V DIMMABLE

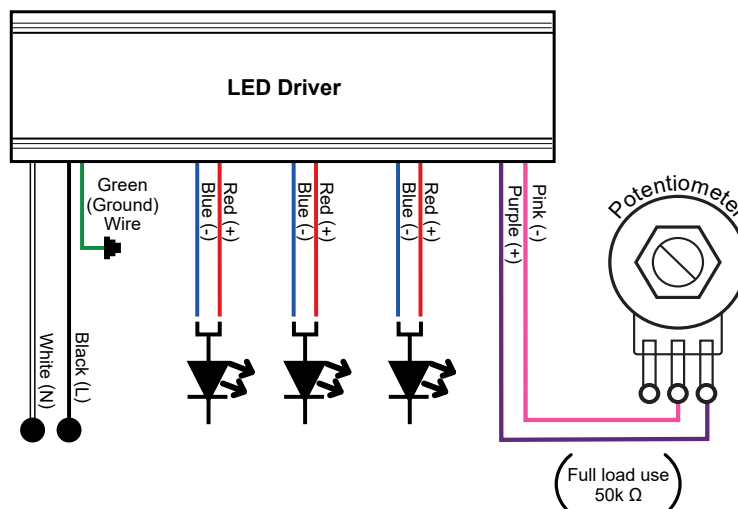
VersaDrive 288W
(96W x 3)
VADT288L24DCOD



Note: Different loads may be used on each channel, subject to minimum/maximum in specifications. Unused channels are okay.

POTENTIOMETER DIMMABLE

VersaDrive 288W
(96W x 3)
VADT288L24DCOD



(Full load use
50k Ω)