

PROJECT	SPECIFIER		
TYPE	ZONE		
SKU	NOTE		
	D300-D3-24		
INPUT VOLTAGE	<input checked="" type="checkbox"/> 120VDC Standard	<input type="checkbox"/> 240VDC (Special Order: Additional Lead Time)	<input type="checkbox"/> 277VDC (Special Order: Additional Lead Time)

CLASS 2
DIMMING LED DRIVER
Electrician Installed

Magnetic Low Voltage
Forward Phase Triac/ Primary

Approved Controls Only



MODEL	D300-D3-24
DIMENSIONS (L-W-H)"	7 x 7 x 3.2"
WATTAGE	288 (3 x 96)
RATING	ETL (UL 1310)
NEMA 3R CASE	INDOOR
STANDARD INPUT VOLTAGE *available in 240 & 277	120V 60Hz
OUTPUT VOLTAGE LOADED	23.5 VDC
VOLTAGE OPEN	25.5 VDC
MAX INPUT CURRENT	3A
PRIMARY BREAKER	5A Thermal
SECONDARY BREAKER	(3X) 4A Magnetic
LEADS PRIMARY AWG, TEMP	#18 105 C
LEADS SECONDARY AWG, TEMP	#12 105 C
THERMAL CLASS	(B) 130 C
MAX FEET 3000 SERIES	168'
MAX FEET 4000 SERIES	81'
MAX FEET 8000 SERIES	39'

Controls compatibility

- 2 Wire, forward-phase, magnetic transformer. Load driver between 50 to 80% of maximum rated wattage.
- Requires RPM-4A for +/-1% dimming.
- RPM-4U for +/-10% dimming
- Compatible with few wall box dimmers- Contact Aion LED representative for more information.

Max LED run per circuit

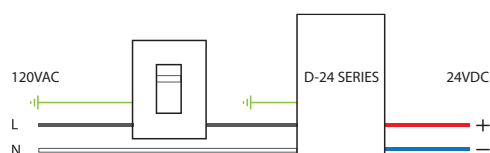
- [4A (96W) per circuit] (NEC Article 725)
- 10% Headroom included
- Use electrical junction boxes to transition between building wire and Aion LED power feeds per local code.

Sub Boxes

- Use larger gauge cord for sub feeds and longer runs. Junction building wire to fixture whips within electrical boxes per local code.

Heat & EMI

- Magnetic DC transformers emit heat and electromagnetic energy. Adequate ventilation required (NEC Article 450)
- Requires 15 inches of space between each transformer.



REFER TO DIMMER INSTRUCTIONS

Component of a complete system including: Aion LED A-Track Light Engine, Aion LED A-Track housing with diffuser lens, & Aion LED driver (power supply). Dimmer not included. Approved dimmers, controls, power supplies, cable, & other components only. Contact Aion LED for questions regarding compatibility. Electrician installed. Strictly adhere to NEC & local building code. Limited 5-year warranty against manufacturing defects only, does not cover labor; voided by: inadequate ventilation, field modifications, installation by unqualified personnel, unapproved controls, drivers, cabling, other devices, not following installation guidelines & protocol, general negligence. Installer assumes all liability with regard to property & safety. This product is UL listed. See separate: "Aion LED Warranty Terms" & additional instructional materials for more information. Authorized installers only. Systems tested prior to shipping. © Copyright 2014 Aion LED. All Rights Reserved AIONLED.COM | (415) 255-AION



AION LED™

D-SERIES

MLV LED DRIVER

Installation Instructions

D20-D-24, D40-D-24, D60-D-24,
D100-D-24, D300-D3-24
MAGNETIC LOW VOLTAGE
FORWARD PHASE
CLASS 2 LED DRIVER

Caution:

Turn main power off at breaker prior to installation or service

Must be installed by licensed & bonded electrician strictly adhere to NEC & local code

D60-D-24 & D100-D-24 are suitable for exterior applications, others are intended for interior use only
Standard input voltage is 120VAC. 240 VAC & 277VAC applications require separate part number
Standard output voltage is 24V DC, 12V DC applications require separate part number

Installation:

Do not load more than 80% of max rated output
Consult with Aion LED to determine max lineal footage per fixture series

Minimum Load: 50%, Maximum Load: 80%

NEC Article 450: (transformer) requires adequate ventilation for convection cooling install in an open area,
Do not install in a sealed space
Ambient temperature max: 110°F.
Allow at least 15 inches of space between multiple units

Requires UL listed wire nuts, connectors, clamps, & cabling suitable for application mount unit vertically with knock-outs facing downward

Wiring:

Primary (AC input): **black**= line, **white**= neutral, **green**= ground
Secondary (DC output): **red**= DC+ (pos) , **blue**= DC- (neg) [polarity sensitive]
Unit must be grounded to earth

Dimming:

Use of unapproved dimmer or control voids standard 5-year warranty against defects & may cause irreparable damage.

Use approved magnetic low-voltage, forward (or adaptive) phase controls only
Please contact Aion LED to ensure compatibility prior to ordering

Programming:

Control system programming must be implemented by authorized personnel only. Lutron electronics requires factory authorized programmer or warranty will be voided. Low & high trims should be set at 10 & 90% respectively, low trim may be dialed down as required

Lutron Grafik Eye QS and newer:

Load type must be pre-configured to 'MLV' , **DO NOT USE** 'incandescent' setting
Although both types share the same terminals, 'MLV' load type setting is required for safe use

Lutron Homeworks, LCP, & similar that require Lutron remote panel modules:

#RPM-4A (adaptive phase module) dims 8% lower than #RPM-4U (forward phase module) per Lutron report card

Other resources:

Aion LED voltage drop chart
Aion LED D-series specifications

*cETLus CLASS 2 CONFORMS TO UL1310 STANDARD, CERTIFIED TO CSA C22.2 # 223
CONTROL # 4005509
"CAUTION" AND "RISK OF ELECTRICAL SHOCK"
OUTDOOR TRANSFORMER ENCLOSURE TYPE NEMA 3R (60 & 100W MODELS ONLY)*

Component of a complete system including: Aion LED A-Track Light Engine, Aion LED A-Track housing with diffuser lens, & Aion LED driver (power supply). Dimmer not included. Approved dimmers, controls, power supplies, cable, & other components only. Contact Aion LED for questions regarding compatibility. Electrician installed. Strictly adhere to NEC & local building code. Limited 5-year warranty against manufacturing defects only, does not cover labor; voided by: inadequate ventilation, field modifications, installation by unqualified personnel, unapproved controls, drivers, cabling, other devices, not following installation guidelines & protocol, general negligence. Installer assumes all liability with regard to property & safety. This product is UL listed. See separate: "Aion LED Warranty Terms" & additional instructional materials for more information. Authorized installers only. Systems tested prior to shipping.
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