

PROJECT	SPECIFIER		
TYPE	ZONE		
SKU	NOTE		
	D ___ -D-24		
INPUT VOLTAGE	<input checked="" type="checkbox"/> 120VDC Standard	<input type="checkbox"/> 240VDC	<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	<input type="checkbox"/> D20-D-24	<input type="checkbox"/> D40-D-24	<input type="checkbox"/> D60-D-24	<input type="checkbox"/> D100-D-24	<input type="checkbox"/> D300-D3-24
DIMENSIONS (L-W-H)"	5 x 2.1 x 2"	5 x 2.1 x 2"	8.5 x 3 x 2.9"	9 x 4.2 x 3.25"	7 x 7 x 3.2"
WATTAGE	20	40	60	96	288 (3 x 96)
RATING	ETL (UL 8750)	ETL (UL 8750)	ETL (UL 1310)	ETL (UL 1310)	ETL (UL 1310)
NEMA 3R CASE	INDOOR	INDOOR	IN & OUTDOOR	IN & OUTDOOR	INDOOR
STANDARD INPUT VOLTAGE	120V 60Hz	120V 60Hz	120V 60Hz	120V 60Hz	120V 60Hz
*Available in 240 & 277, Allow add'l lead time					
OUTPUT VOLTAGE LOADED	23.5 VDC	23.5 VDC	23.5 VDC	23.5 VDC	23.5 VDC
VOLTAGE OPEN	25.5 VDC	25.5 VDC	25.5 VDC	25.5 VDC	25.5 VDC
MAX INPUT CURRENT	206mA	360mA	0.6A	1A	3A
PRIMARY BREAKER	Thermal	Thermal	1A Thermal	2A Thermal	5A Thermal
SECONDARY BREAKER	2A	4A	5A Thermal	4A Magnetic	(3X) 4A Magnetic
LEADS PRIMARY AWG, TEMP	#20 105 C	#20 105 C	#18 105 C	#18 105 C	#18 105 C
LEADS SECONDARY AWG, TEMP	#16 105 C	#16 105 C	#12 105 C	#12 105 C	#12 105 C
THERMAL CLASS	(B) 130 C	(B) 130 C	(B) 130 C	(B) 130 C	(B) 130 C
MAX FEET 3000 SERIES	11'	22'	33'	56'	168'
MAX FEET 4000 SERIES	5.5'	11'	16'	27'	81'
MAX FEET 8000 SERIES	2'	5.5'	8'	13'	39'

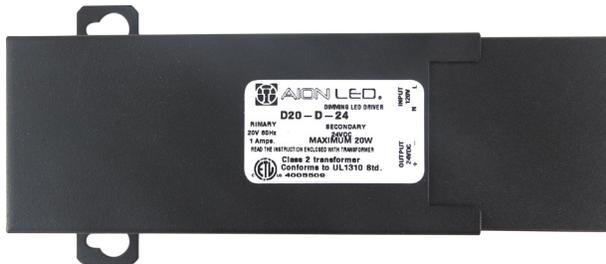
Component of a complete system including: Aion LED A-Track Light Engine, Aion LED A-Track housing with diffuser lens, & Aion LED driver (power supply). Dimmer not included. Approved dimmers, controls, power supplies, cable, & other components only. Contact Aion LED for questions regarding compatibility. 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

PROJECT	SPECIFIER		
TYPE	ZONE		
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D__-D-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	<input type="checkbox"/> D20-D-24	<input type="checkbox"/> D40-D-24
DIMENSIONS (L-W-H)''	5 x 2.1 x 2''	5 x 2.1 x 2''
WATTAGE	20	40
RATING	ETL (UL 8750)	ETL (UL 8750)
NEMA 3R CASE	INDOOR	INDOOR
STANDARD INPUT VOLTAGE *available in 240 & 277	120V 60Hz	120V 60Hz
OUTPUT VOLTAGE LOADED	23.5 VDC	23.5 VDC
VOLTAGE OPEN	25.5 VDC	25.5 VDC
MAX INPUT CURRENT	206mA	360mA
PRIMARY BREAKER	Thermal	Thermal
SECONDARY BREAKER	2A	4A
LEADS PRIMARY AWG, TEMP	#20 105 C	#20 105 C
LEADS SECONDARY AWG, TEMP	#16 105 C	#16 105 C
THERMAL CLASS	(B) 130 C	(B) 130 C
MAX FEET 3000 SERIES	11'	22'
MAX FEET 4000 SERIES	5.5'	11'
MAX FEET 8000 SERIES	2'	5.5'

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

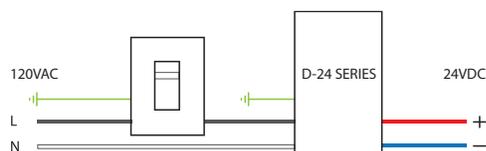
- [4A (96W) per circuit] (NEC Article 725)
- 10% Headroom included
- Use electrical junction boxes to transition between building wire and Aion LED power feeds per local code.

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

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

CLASS 2
DIMMING LED DRIVER
Electrician Installed

Magnetic Low Voltage
Forward Phase Triac/ Primary

Approved Controls Only



MODEL	<input type="checkbox"/> D60-D-24	<input type="checkbox"/> D100-D-24
DIMENSIONS (L-W-H)"	8.5 x 3 x 2.9"	9 x 4.2 x 3.25"
WATTAGE	60	96
RATING	ETL (UL 1310)	ETL (UL 1310)
NEMA 3R CASE	IN & OUTDOOR	IN & OUTDOOR
STANDARD INPUT VOLTAGE *available in 240 & 277	120V 60Hz	120V 60Hz
OUTPUT VOLTAGE LOADED	23.5 VDC	23.5 VDC
VOLTAGE OPEN	25.5 VDC	25.5 VDC
MAX INPUT CURRENT	0.6A	1A
PRIMARY BREAKER	1A Thermal	2A Thermal
SECONDARY BREAKER	5A Thermal	4A Magnetic
LEADS PRIMARY AWG, TEMP	#18 105 C	#18 105 C
LEADS SECONDARY AWG, TEMP	#12 105 C	#12 105 C
THERMAL CLASS	(B) 130 C	(B) 130 C
MAX FEET 3000 SERIES	33'	56'
MAX FEET 4000 SERIES	16'	27'
MAX FEET 8000 SERIES	8'	13'

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

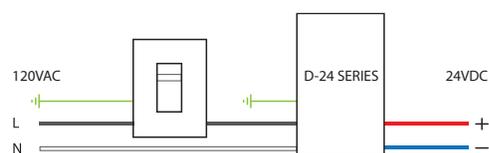
- [4A (96W) per circuit] (NEC Article 725)
- 10% Headroom included
- Use electrical junction boxes to transition between building wire and Aion LED power feeds per local code.

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

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

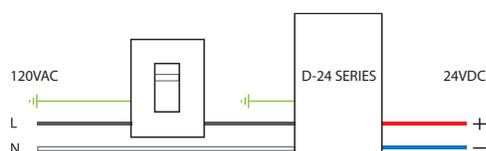
- [4A (96W) per circuit] (NEC Article 725)
- 10% Headroom included
- Use electrical junction boxes to transition between building wire and Aion LED power feeds per local code.

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)*

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