Bosca - Dynamic Color | Linear Illumination System

luminii

Features

- 24VDC Class 2 fixtures made to order up to 144". Fixtures can be linked up to 30' depending on output
- Suitable for undercabinet, millwork, direct view, grazer, vanity, architectural reveals, accent lighting and surface mount applications
- Approved for closet/storage space installation per NEC 410.16(A)(3) and 410.16(C)(5)
- Class two listed for damp locations.
- Dot free even illumination with frosted and raised lens
- 5 year warranty

- Proprietary strong bond solder method handles up to 50 lbs of pull force on wire leads and connectors.
- Dynamic White allows individual control of CCT and output
- Warm Dim follows the incandescent dimming curve and is compatible with MLV, ELV, and Incandescent dimmers.
- RGB options offer balanced output across the color gamut and a true white with RGBW
- Smart Pixel offerings allow for infinite color combinations with cascading and chasing effects.

Warm Dimming Dynamic White RGB RGBW Pixel

0.60"
0.60"
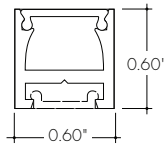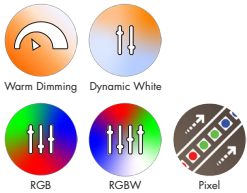
Finish Options (see page 2 for additional information)

- Silver Anodized
- Black
- Bronze
- White
- Matte Black
- Warm Nickel
- Aged Brass
- Polished Gold
- Chrome

MADE IN U.S.A. · CE · Single Bin +/- 30 CCT · RoHS · UL LISTED · TITLE 24 JA8 COMPLIANT · DIM

Technical Information

TYPE	Warm Dim	Dynamic White		RGBW		RGB		Pixel	
OUTPUT OPTIONS	WD68SO (19K–27K)	DW68SO (27K–65K)	DW68HO (27K–65K)	RGBW36SO	RGBW36HO	RGB42SO	RGB42HO	RGBWX18SO	RGBX18SO
Lumens Output (all channels full on) (with a Satin Ice Lens)	230 lm/ft	279 lm/ft	335 lm/ft	140 lm/ft	232 lm/ft	139 lm/ft	204 lm/ft	169 lm/ft	112 lm/ft
Average Power Consumption (for a 4' section)	5.4 W/ft	4.6 W/ft	5.6 W/ft	4.0 W/ft	7.6 W/ft	4.5 W/ft	8.3 W/ft	5.7 W/ft	4.5 W/ft
Efficacy	43 lm/W	61 lm/W	60 lm/W	35 lm/W	31 lm/W	31 lm/W	25 lm/W	30 lm/W	25 lm/W
Max Run Length (in series)	20 ft	32 ft	32 ft	26 ft	13 ft	28 ft	13 ft	20 ft	30 ft
Max Ambient Temperature*	50°C [122°F]	50°C [122°F]		50°C [122°F]		50°C [122°F]		50°C [122°F]	
Control/Dimming Protocol	MLV, ELV, Inc.	0–10V, DMX		DMX				SPI Protocol UCS 2904	SPI Protocol UCS 2903

*Max Ambient Temperature to maintain L70 of 50k+ hours. Exceeding Max Ambient Temperature may result in decreased life/output. Consult Technical Support for specific inquiries.

Warm Dim (WD68)

CCT	TM-30			
	CRI	R_f	R_g	R9
1900K	96	92	96	94
2700K	96	93	106	95

Dynamic White (DW68)

CCT	TM-30			
	CRI	R_f	R_g	R9
1900K	97	94	98	95
2700K	98	96	101	91
2900K	98	96	102	94
3500K	97	94	105	97
4400K	97	91	101	97
6500K	92	88	97	64

RGBW (3000K)

Tape	TM-30			
	CRI	R_f	R_g	R9
RGBW36	95	93	106	84
RGBWX18	93	91	99	64

DW68

CCT	Multiplier
27K - 65K	1.00
19K - 35K	0.78

Dominant Wavelength

Color	RGB/RGBW
Red	620nm
Green	525nm
Blue	467nm

Ordering Code

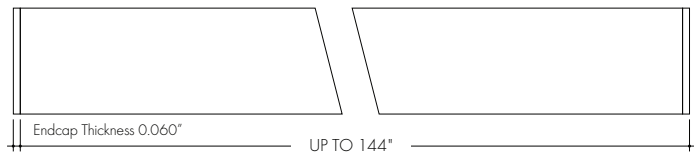| MODEL	LENGTH[1]	OUTPUT	CCT	LENS[2]	MOUNTING	FINISH[3]	POSITION TYPE	POWER FEED
BOS - Bosca	12"–144" 3" increments	WD68SO - Standard	19K27K - 1900K - 2700K	F - Frosted G - Graze R - Raised SI - Satin Ice	FC - Fixed Clip SC - Screw-in MAG - Magnetic A - Adjustable Hinge Mounting	SA - Silver Anodized BK - Black BZ - Bronze WH - White MBK - Matte Black WN - Warm Nickel AB - Aged Brass PG - Polished Gold[4] CH - Chrome[4]	E - End B - Back S - Side	1 - 72" wire leads 1X2 - 72" wire leads at both ends 2 - 72" wire leads at one end and Quick Connect at other 3 - Single Quick Connect 4 - Dual Quick Connect
	12"–144" 3" increments	DW68SO - Standard DW68HO - High	19K35K - 1900K - 3500K 27K65K - 2700K - 6500K					
	12"–144" 2" increments	RGBW36SO - Standard RGBW36HO - High RGB42SO - Standard RGB42HO - High	CLR - Color					
	12"–144" 4" increments	RGBWX18SO - Standard RGBX18SO - Standard	PXSPI - Smart Pixel Control					

1 - Custom lengths and increments are available, please consult Inside Sales with specific request.
2 - Warm Dim and Dynamic White options can be used to comply with Title 24 JA8 at max brightness depending on Lens selection, see multiplier charts to calculate specific efficacy.
3 - Non SA finishes may have extended lead times. Custom RALs are available, please consult Inside Sales with specific request.
4 - Polished Gold finishes have a maximum fixture length of 48", and Chrome finishes have a maximum fixture length of 72".
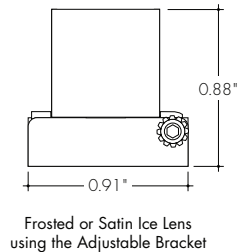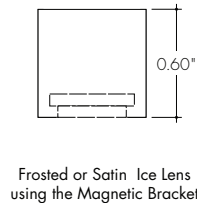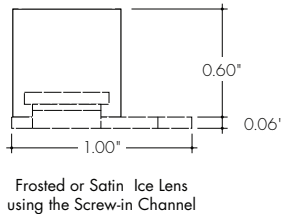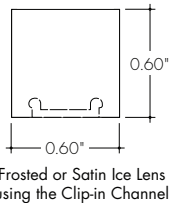
Product Dimensions

Fixture/Lens Profile

0.65"

0.60"
Frosted or Satin
Ice Lens

Graze Lens

Raised Lens

1.00"

Fixture Side

Endcap Thickness 0.060"

UP TO 144"
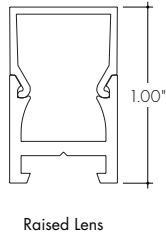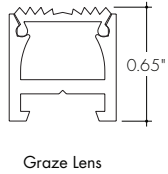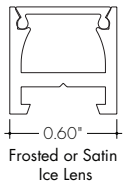
Fixture/Mounting Profile

0.60"

0.60"
Frosted or Satin Ice Lens
using the Clip-in Channel

0.60"

0.06"

1.00"
Frosted or Satin Ice Lens
using the Screw-in Channel

0.60"
Frosted or Satin Ice Lens
using the Magnetic Bracket

0.88"

0.91"
Frosted or Satin Ice Lens
using the Adjustable Bracket

Finish Options

- Finish options are available in a wide variety, allowing for complete customization of style and aesthetic.
- Non Silver Anodized finishes may have extended lead times.
- Polished Gold finishes have a maximum fixture length of 48", and Chrome finishes have a maximum fixture length of 72".
- Custom RALs are available, please consult Inside Sales with specific request.

Silver Anodized
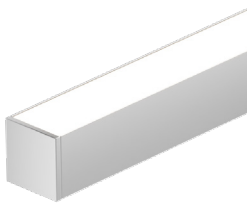
Silver Anodized is a soft silver with a clear finish.

Black
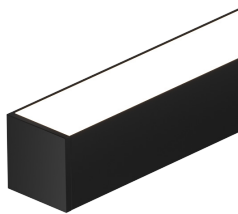
Black is a true deep black with a glossy finish.

Bronze
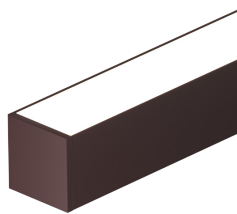
Bronze is a rich, dark brown with a satin finish.

White

White is a polar bright white and field paintable.

Matte Black
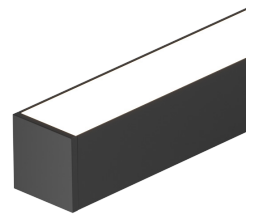
Matte Black is a dark, pitch-black with a soft flat finish.

Warm Nickel
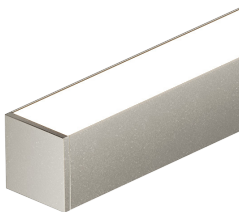
Warm Nickel is a soft, silvery smoke with warm tones and a satin finish.

Aged Brass

Aged Brass is a deep brown shade with slightly golden undertones.

Polished Gold

Polished Gold is bright and radiant for a brilliant finish.

Chrome

Chrome is a highly reflective silver polish.

Powerfeeds and Connectors

Linking and Extension Cable Options

For use with Warm Dim (WD68):

Female Quick Connect — 0.45"

Female/Male Adapter — 0.45"

Lead Wires — 0.17"

LMC-70
Male quick-connect long, 2 pin, 70"

70.0"

Male QC

EC-48
Female/Female Extension Cable, 2 pin, 48"
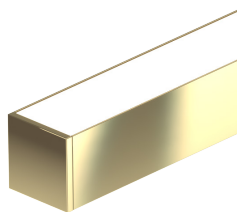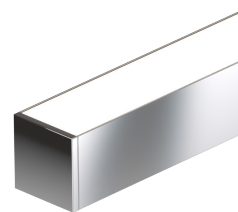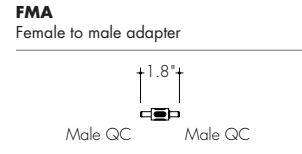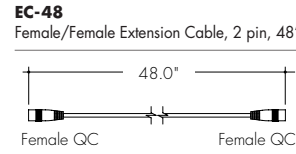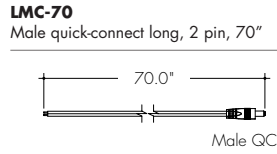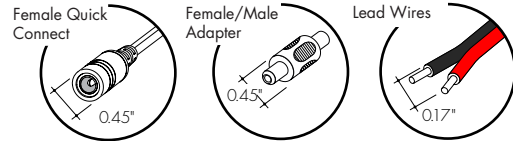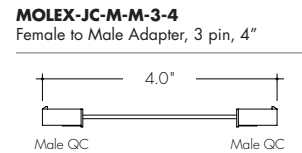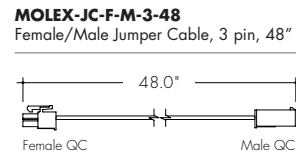
48.0"

Female QC — Female QC

FMA
Female to male adapter

1.8"

Male QC — Male QC

For use with Dynamic White (DW68), RGB Pixel (RGBX18) and RGBW Pixel (RGBWX18):

Female Quick Connect 4 Pin — 0.57" x 0.38"

Male Quick Connect 4 Pin — 0.47" x 0.46"

Lead Wires — 0.24"

MOLEX-CON-LEAD-M-3-48
Molex Male Connector Cable, 3 pin, 48"

48.0"

Male QC

MOLEX-JC-F-M-3-48
Female/Male Jumper Cable, 3 pin, 48"

48.0"

Female QC — Male QC

MOLEX-JC-M-M-3-4
Female to Male Adapter, 3 pin, 4"

4.0"

Male QC — Male QC

For use with RGB (RGB42):

Female Quick Connect 4 Pin — 0.57" x 0.38"

Male Quick Connect 4 Pin — 0.47" x 0.46"

Lead Wires — 0.32"

MOLEX-CON-LEAD-M-4-48
Molex Male Connector Cable, 4 pin, 48"

48.0"

Male QC

MOLEX-JC-F-M-4-48
Female/Male Jumper Cable, 4 pin, 48"

48.0"

Female QC — Male QC

MOLEX-JC-M-M-4-4
Female to Male Adapter, 4 pin, 4"

4.0"

Male QC — Male QC

For use with RGBW (RGBW36):

Female Quick Connect 6 Pin — 0.57" x 0.54"

Male Quick Connect 6 Pin — 0.47" x 0.54"

Lead Wires — 0.41"

MOLEX-CON-LEAD-M-5-48
Molex Male Connector Cable, 5 pin, 48"

48.0"

Male QC

MOLEX-JC-F-M-5-48
Female/Male Jumper Cable, 5 pin, 48"

48.0"

Female QC — Male QC

MOLEX-JC-M-M-5-4
Female to Male Adapter, 5 pin, 4"

4.0"

Male QC — Male QC

Powerfeeds Position/Type

E End Feed

B Back Feed

S Side Feed

1
72" wire leads

72.0"

2
72" wire leads at one end and Female Quick Connect at other

4.0" — Female QC — 72.0"

4
Dual Female Quick Connect

4.0" — Female QC — 4.0" — Female QC

1X2
72" wire leads at both end

72.0" — 72.0"

3
Single Female Quick Connect

4.0" — Female QC
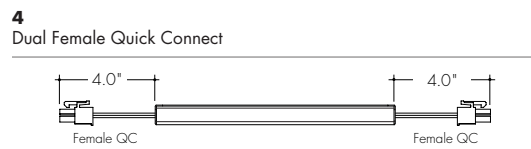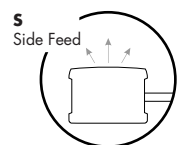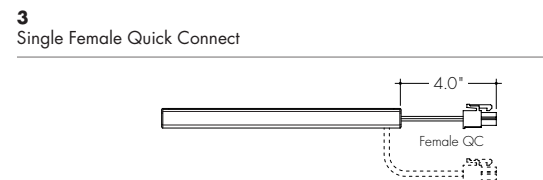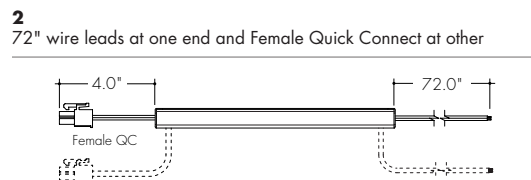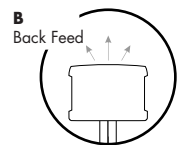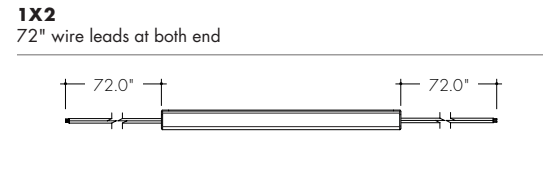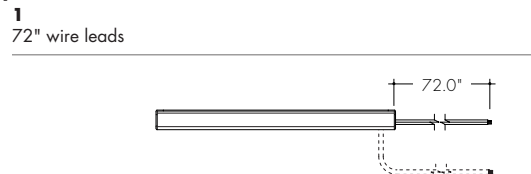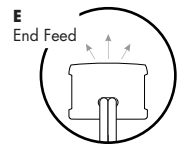
Side and Back feeds shown as dashed lines
All wires are 18 AWG unless otherwise specified

Sample Layout

Female QC ... Female QC ... Female QC

MOLEX-CON-LEAD-M-5-48 — MOLEX-JC-F-M-5-48 — MOLEX-JC-M-M-5-4 — MOLEX-JC-F-M-5-48

MOLEX-JC-M-M-5-4

Female QC — Female QC

MOLEX-CON-LEAD-M-5-48 — min 0.25" — End feed shown

MOLEX-JC-M-M-5-4

Female QC — Female QC

MOLEX-CON-LEAD-M-5-48 — Side and Back feed shown
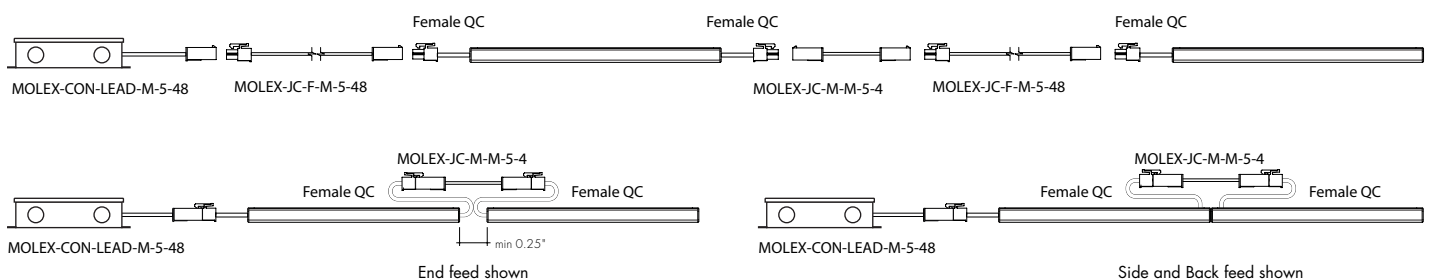
Lens Option / Light Transmission

Output Options	Lens/Accessory			
	Graze	Satin Ice	Raised	Frosted
WD68SO - 27K	CD	CD	ND	ND
WD68SO - 19K	CD	CD	ND	SD
DW68SO (All On)	CD	CD	ND	ND
DW68SO (1-Channel)	CD	CD	ND	SD
DW68HO (All On)	CD	CD	ND	ND
DW68HO (1-Channel)	CD	CD	ND	SD
RGBW36SO	CD	CD	ND	SD
RGBW36HO	CD	CD	ND	SD
RGB42SO	CD	CD	ND	ND
RGB42HO	CD	CD	ND	ND
RGBWX18SO	CD	CD	CD	CD
RGBX18SO	CD	CD	CD	CD
Transmission Percentage	114%	100%	91%	78%
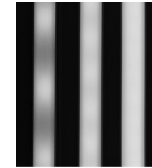
CD **SD** **ND**

CD - Clear Dotting
SD - Slight Dotting
ND - No Dotting

Accessory Options

LVSP-4T-BK
Low Voltage, 4 Terminal Splice Box, Black

3.00"
0.90"
1.90"
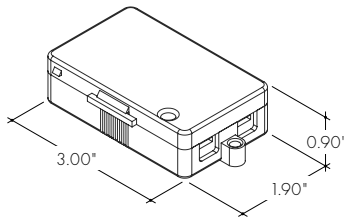
Power Consumption

Tested at Full Power with PDC Series power supplies.
*For Back and Side Feed add 4/16" (1/4") to Actual Length. Standard Nominal Lengths offered provide minimal shadowing. For alternate lengths, please consult Inside Sales with specific request.

Warm Dim (WD68)

Nominal Length (in)	End Feed Actual Length*	Watts SO	Nominal Length (in)	End Feed Actual Length*	Watts SO	Nominal Length (in)	End Feed Actual Length*	Watts SO	Nominal Length (in)	End Feed Actual Length*	Watts SO
12	10 7/16	4.6	47	–	–	82	81 13/16	34.8	117	116 4/16	47.5
13	12 15/16	5.8	48	47 6/16	21.0	83	–	–	118	–	–
14	–	–	49	–	–	84	–	–	119	118 12/16	48.3
15	–	–	50	49 13/16	22.0	85	84 5/16	35.7	120	–	–
16	15 6/16	6.9	51	–	–	86	–	–	121	–	–
17	–	–	52	–	–	87	86 12/16	36.7	122	121 3/16	49.1
18	17 14/16	8.0	53	52 5/16	23.0	88	–	–	123	–	–
19	–	–	54	–	–	89	–	–	124	123 11/16	49.9
20	–	–	55	54 12/16	24.1	90	89 3/16	37.6	125	–	–
21	20 5/16	9.1	56	–	–	91	–	–	126	–	–
22	–	–	57	–	–	92	91 11/16	38.6	127	126 2/16	50.6
23	22 12/16	10.2	58	57 4/16	25.1	93	–	–	128	–	–
24	–	–	59	–	–	94	–	–	129	128 9/16	51.5
25	–	–	60	59 11/16	26.1	95	94 2/16	39.6	130	–	–
26	25 4/16	11.3	61	–	–	96	–	–	131	–	–
27	–	–	62	–	–	97	96 9/16	40.5	132	131 1/16	52.5
28	27 11/16	12.3	63	62 2/16	27.1	98	–	–	133	–	–
29	–	–	64	–	–	99	–	–	134	133 8/16	53.3
30	–	–	65	64 10/16	28.0	100	99 1/16	41.4	135	–	–
31	30 2/16	13.4	66	–	–	101	–	–	136	135 15/16	54.2
32	–	–	67	–	–	102	101 8/16	42.2	137	–	–
33	32 10/16	14.5	68	67 1/16	29.0	103	–	–	138	–	–
34	–	–	69	–	–	104	104	43.0	139	138 7/16	54.8
35	–	–	70	69 8/16	30.0	105	–	–	140	–	–
36	35 1/16	15.6	71	–	–	106	–	–	141	140 14/16	55.4
37	–	–	72	72	30.9	107	106 7/16	43.9	142	–	–
38	37 9/16	16.7	73	–	–	108	–	–	143	–	–
39	–	–	74	–	–	109	108 14/16	44.8	144	143 5/16	56.2
40	40	17.8	75	74 7/16	32.0	110	–	–			
41	–	–	76	–	–	111	–	–			
42	–	–	77	76 14/16	33.1	112	111 6/16	45.8			
43	42 7/16	18.9	78	–	–	113	–	–			
44	–	–	79	–	–	114	113 13/16	46.6			
45	44 15/16	20.0	80	79 6/16	33.9	115	–	–			
46	–	–	81	–	–	116	–	–			

Power Consumption

Tested at Full Power with PDC Series power supplies.
Standard Nominal Lengths offered provide minimal shadowing. For alternate lengths, please consult Inside Sales with specific request.

Dynamic White (DW68)

Nominal Length (in)	Actual Length	Watts SO	Watts HO	Nominal Length (in)	Actual Length	Watts SO	Watts HO	Nominal Length (in)	Actual Length	Watts SO	Watts HO	Nominal Length (in)	Actual Length	Watts SO	Watts HO
12	10 11/16	4.6	5.9	47	–	–	–	82	–	–	–	117	116 8/16	41.5	50.8
13	–	–	–	48	47 10/16	18.3	23.1	83	82 1/16	29.9	37.3	118	–	–	–
14	13 3/16	4.6	5.9	49	–	–	–	84	–	–	–	119	119	41.9	51.5
15	–	–	–	50	–	–	–	85	84 9/16	30.5	38.5	120	–	–	–
16	15 10/16	5.9	7.4	51	50 1/16	19.0	24.0	86	–	–	–	121	–	–	–
17	–	–	–	52	–	–	–	87	87	31.4	39.5	122	121 7/16	42.7	52.5
18	–	–	–	53	52 9/16	20.0	25.4	88	–	–	–	123	–	–	–
19	18 2/16	6.7	8.4	54	–	–	–	89	–	–	–	124	123 14/16	43.3	53.0
20	–	–	–	55	–	–	–	90	89 7/16	32.7	40.9	125	–	–	–
21	20 9/16	7.9	9.8	56	55	20.7	26.3	91	–	–	–	126	–	–	–
22	–	–	–	57	–	–	–	92	91 15/16	33.6	41.8	127	126 6/16	44.0	53.5
23	–	–	–	58	57 8/16	21.8	27.7	93	–	–	–	128	–	–	–
24	23	8.7	10.8	59	–	–	–	94	–	–	–	129	128 13/16	45.0	54.3
25	–	–	–	60	59 15/16	22.5	28.6	95	94 6/16	34.9	43.3	130	–	–	–
26	25 8/16	9.8	12.3	61	–	–	–	96	–	–	–	131	–	–	–
27	–	–	–	62	–	–	–	97	96 13/16	35.8	44.2	132	131 5/16	45.6	54.8
28	27 15/16	10.6	13.3	63	62 6/16	23.7	29.8	98	–	–	–	133	–	–	–
29	–	–	–	64	–	–	–	99	–	–	–	134	133 12/16	46.5	55.7
30	–	–	–	65	64 14/16	24.6	30.6	100	99 5/16	36.4	44.8	135	–	–	–
31	30 6/16	11.8	14.8	66	–	–	–	101	–	–	–	136	–	–	–
32	–	–	–	67	–	–	–	102	101 12/16	37.4	45.7	137	136 3/16	46.8	56.3
33	32 14/16	12.6	15.8	68	67 5/16	25.4	31.3	103	–	–	–	138	–	–	–
34	–	–	–	69	–	–	–	104	–	–	–	139	138 11/16	47.3	57.4
35	–	–	–	70	69 12/16	26.7	32.4	105	104 4/16	38.0	46.3	140	–	–	–
36	35 5/16	13.4	16.8	71	–	–	–	106	–	–	–	141	–	–	–
37	–	–	–	72	–	–	–	107	106 11/16	39.0	47.2	142	141 2/16	47.6	58.1
38	37 13/16	14.5	18.3	73	72 4/16	27.6	33.1	108	–	–	–	143	–	–	–
39	–	–	–	74	–	–	–	109	–	–	–	144	143 9/16	48.1	59.1
40	–	–	–	75	74 11/16	28.4	34.3	110	109 2/16	39.7	47.8				
41	40 4/16	15.3	19.3	76	–	–	–	111	–	–	–				
42	–	–	–	77	–	–	–	112	111 10/16	40.3	48.9				
43	42 11/16	16.4	20.7	78	77 2/16	28.9	35.2	113	–	–	–				
44	–	–	–	79	–	–	–	114	–	–	–				
45	–	–	–	80	79 10/16	29.5	36.4	115	114 1/16	40.8	49.7				
46	45 3/16	17.2	21.7	81	–	–	–	116	–	–	–				

Power Consumption

Tested at Full Power with PDC Series power supplies.
Standard Nominal Lengths offered provide minimal shadowing. For alternate lengths, please consult Inside Sales with specific request.

RGB/RGBW (RGB42/RGBW36)

Nominal Length (in)	Actual Length	RGBW36 SO	RGBW36 HO	RGB42 SO	RGB42 HO	Nominal Length (in)	Actual Length	RGBW36 SO	RGBW36 HO	RGB42 SO	RGB42 HO	Nominal Length (in)	Actual Length	RGBW36 SO	RGBW36 HO	RGB42 SO	RGB42 HO	Nominal Length (in)	Actual Length	RGBW36 SO	RGBW36 HO	RGB42 SO	RGB42 HO
12	10 11/16	4.0	7.3	4.4	8.6	47	46 2/16	14.4	27.5	16.8	31.3	82	81 9/16	26.1	49.6	29.4	53.8	117	–	–	–	–	–
13	12 11/16	4.0	7.3	4.4	8.6	48	–	–	–	–	–	83	–	–	–	–	–	118	117	37.1	66.2	41.3	73.1
14	–	–	–	–	–	49	48 2/16	15.1	28.8	17.5	32.7	84	83 9/16	26.8	50.8	30.0	55.0	119	119	37.8	67.5	41.9	74.0
15	14 10/16	4.5	8.5	5.2	10.0	50	–	–	–	–	–	85	–	–	–	–	–	120	–	–	–	–	–
16	–	–	–	–	–	51	50 1/16	15.8	30.0	18.3	34.0	86	85 8/16	27.4	51.9	30.7	56.2	121	120 15/16	38.6	68.7	42.6	74.9
17	16 10/16	5.1	9.7	5.9	11.3	52	–	–	–	–	–	87	–	–	–	–	–	122	–	–	–	–	–
18	–	–	–	–	–	53	52 1/16	16.4	31.2	18.9	35.1	88	87 8/16	28.0	52.9	31.4	57.3	123	122 15/16	39.2	69.7	43.2	75.3
19	18 9/16	5.6	10.9	6.7	12.6	54	–	–	–	–	–	89	–	–	–	–	–	124	–	–	–	–	–
20	–	–	–	–	–	55	54	17.0	32.4	19.6	36.3	90	89 7/16	28.6	53.8	32.2	58.4	125	124 14/16	39.7	70.7	43.8	75.7
21	20 9/16	6.2	12.1	7.4	13.9	56	56	17.6	33.5	20.3	37.5	91	–	–	–	–	–	126	–	–	–	–	–
22	–	–	–	–	–	57	–	–	–	–	–	92	91 7/16	29.2	54.8	32.9	59.5	127	126 14/16	40.3	71.7	44.4	76.1
23	22 8/16	6.7	13.3	8.2	15.2	58	57 15/16	18.2	34.7	21.0	38.7	93	–	–	–	–	–	128	–	–	–	–	–
24	–	–	–	–	–	59	–	–	–	–	–	94	93 6/16	29.9	55.8	33.6	60.5	129	128 13/16	40.8	72.8	45.0	76.6
25	24 8/16	7.3	14.5	8.9	16.6	60	59 15/16	18.9	35.9	21.7	39.8	95	–	–	–	–	–	130	–	–	–	–	–
26	–	–	–	–	–	61	–	–	–	–	–	96	95 6/16	30.2	56.3	34.0	61.1	131	130 13/16	41.4	73.8	45.6	77.0
27	26 7/16	8.0	15.7	9.6	18.0	62	61 14/16	19.5	37.1	22.4	41.1	97	–	–	–	–	–	132	–	–	–	–	–
28	–	–	–	–	–	63	–	–	–	–	–	98	97 5/16	30.8	57.2	34.7	62.2	133	132 12/16	41.9	74.8	46.3	77.4
29	28 7/16	8.6	17.0	10.4	19.4	64	63 14/16	20.2	38.4	23.2	42.4	99	–	–	–	–	–	134	–	–	–	–	–
30	–	–	–	–	–	65	–	–	–	–	–	100	99 5/16	31.3	57.9	35.4	63.4	135	134 12/16	42.5	75.5	46.8	78.1
31	30 6/16	9.3	18.2	11.1	20.7	66	65 13/16	20.8	39.7	24.0	43.7	101	–	–	–	–	–	136	–	–	–	–	–
32	–	–	–	–	–	67	–	–	–	–	–	102	101 4/16	31.9	58.6	36.0	64.7	137	136 11/16	43.1	76.3	47.3	78.8
33	32 6/16	9.7	18.8	11.5	21.4	68	67 13/16	21.5	41.0	24.7	45.1	103	–	–	–	–	–	138	–	–	–	–	–
34	–	–	–	–	–	69	–	–	–	–	–	104	103 4/16	32.4	59.3	36.7	65.9	139	138 11/16	43.7	77.0	47.8	79.6
35	34 5/16	10.3	20.0	12.2	22.8	70	69 12/16	22.1	42.3	25.5	46.4	105	–	–	–	–	–	140	–	–	–	–	–
36	–	–	–	–	–	71	–	–	–	–	–	106	105 3/16	32.9	60.0	37.3	67.2	141	140 10/16	44.3	77.7	48.3	80.3
37	36 5/16	11.0	21.3	13.0	24.2	72	71 12/16	22.8	43.5	26.3	47.8	107	–	–	–	–	–	142	–	–	–	–	–
38	–	–	–	–	–	73	–	–	–	–	–	108	107 3/16	33.5	60.7	38.0	68.4	143	142 10/16	44.9	78.5	48.8	81.0
39	38 4/16	11.7	22.5	13.7	25.6	74	73 11/16	23.5	44.8	26.9	49.0	109	–	–	–	–	–	144	–	–	–	–	–
40	–	–	–	–	–	75	–	–	–	–	–	110	109 2/16	34.0	61.4	38.6	69.7						
41	40 4/16	12.4	23.8	14.5	27.0	76	75 11/16	24.1	46.0	27.6	50.2	111	–	–	–	–	–						
42	–	–	–	–	–	77	–	–	–	–	–	112	111 2/16	34.8	62.6	39.3	70.5						
43	42 3/16	13.1	25.0	15.2	28.5	78	77 10/16	24.8	47.2	28.2	51.4	113	–	–	–	–	–						
44	–	–	–	–	–	79	–	–	–	–	–	114	113 1/16	35.6	63.8	39.9	71.4						
45	44 3/16	13.8	26.3	16.0	29.9	80	79 10/16	25.4	48.4	28.8	52.6	115	–	–	–	–	–						
46	–	–	–	–	–	81	–	–	–	–	–	116	115 1/16	36.3	65.0	40.6	72.3						

Power Consumption

Tested at Full Power with PDC Series power supplies.
Standard Nominal Lengths offered provide minimal shadowing. For alternate lengths, please consult Inside Sales with specific request.

PIXEL (RGBX18/RGBWX18)

Nominal Length (in)	Actual Length	Watts RGBX18 SO	Watts RGBWX18 SO	Nominal Length (in)	Actual Length	Watts RGBX18 SO	Watts RGBWX18 SO	Nominal Length (in)	Actual Length	Watts RGBX18 SO	Watts RGBWX18 SO	Nominal Length (in)	Actual Length	Watts RGBX18 SO	Watts RGBWX18 SO
12	8 12/16	4.6	5.7	47	–	–	–	82	–	–	–	117	–	–	–
13	12 11/16	4.6	5.7	48	–	–	–	83	–	–	–	118	–	–	–
14	–	–	–	49	48 2/16	17.4	21.9	84	83 9/16	29.8	37.1	119	119	40.9	51.2
15	–	–	–	50	–	–	–	85	–	–	–	120	–	–	–
16	–	–	–	51	–	–	–	86	–	–	–	121	–	–	–
17	16 10/16	6.1	7.5	52	–	–	–	87	–	–	–	122	–	–	–
18	–	–	–	53	52 1/16	18.9	23.7	88	87 8/16	31.1	38.7	123	122 15/16	42.1	52.8
19	–	–	–	54	–	–	–	89	–	–	–	124	–	–	–
20	–	–	–	55	–	–	–	90	–	–	–	125	–	–	–
21	20 9/16	7.6	9.4	56	56	20.3	25.4	91	–	–	–	126	–	–	–
22	–	–	–	57	–	–	–	92	91 7/16	32.4	40.3	127	126 14/16	43.3	54.3
23	–	–	–	58	–	–	–	93	–	–	–	128	–	–	–
24	–	–	–	59	–	–	–	94	–	–	–	129	–	–	–
25	24 8/16	9.1	11.3	60	59 15/16	21.7	27.1	95	–	–	–	130	–	–	–
26	–	–	–	61	–	–	–	96	95 6/16	33.4	41.6	131	130 13/16	44.5	55.9
27	–	–	–	62	–	–	–	97	–	–	–	132	–	–	–
28	–	–	–	63	–	–	–	98	–	–	–	133	–	–	–
29	28 7/16	10.6	13.2	64	63 14/16	23.0	28.8	99	–	–	–	134	–	–	–
30	–	–	–	65	–	–	–	100	99 5/16	34.6	43.2	135	134 12/16	45.7	57.4
31	–	–	–	66	–	–	–	101	–	–	–	136	–	–	–
32	–	–	–	67	–	–	–	102	–	–	–	137	–	–	–
33	32 6/16	11.7	14.6	68	67 13/16	24.4	30.5	103	–	–	–	138	–	–	–
34	–	–	–	69	–	–	–	104	103 4/16	35.9	44.8	139	138 11/16	46.9	58.9
35	–	–	–	70	–	–	–	105	–	–	–	140	–	–	–
36	–	–	–	71	–	–	–	106	–	–	–	141	–	–	–
37	36 5/16	13.1	16.5	72	71 12/16	25.8	32.3	107	–	–	–	142	–	–	–
38	–	–	–	73	–	–	–	108	107 3/16	37.2	46.4	143	142 10/16	48.0	60.4
39	–	–	–	74	–	–	–	109	–	–	–	144	–	–	–
40	–	–	–	75	–	–	–	110	–	–	–				
41	40 4/16	14.6	18.3	76	75 11/16	27.1	33.9	111	–	–	–				
42	–	–	–	77	–	–	–	112	111 2/16	38.4	48.0				
43	–	–	–	78	–	–	–	113	–	–	–				
44	–	–	–	79	–	–	–	114	–	–	–				
45	44 3/16	16.0	20.1	80	79 10/16	28.4	35.5	115	–	–	–				
46	–	–	–	81	–	–	–	116	115 1/16	39.7	49.6				

Voltage Drop Calculator

The below chart assumes nominal voltage of 24 Volts and a Voltage Drop Allowance of 3% through the wire

| Wattage [W]	Maximum Wire Length From Power Supply to Start of Run [ft]						
	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG
5	1088.2	684.4	430.3	270.6	170.2	107.1	67.3
10	544.1	342.2	215.1	135.3	85.1	53.5	33.7
15	362.7	228.1	143.4	90.2	56.7	35.7	22.4
20	272.0	171.1	107.6	67.7	42.6	26.8	16.8
25	217.6	136.9	86.1	54.1	34.0	21.4	13.5
30	181.4	114.1	71.7	45.1	28.4	17.8	11.2
35	155.5	97.8	61.5	38.7	24.3	15.3	9.6
40	136.0	85.5	53.8	33.8	21.3	13.4	8.4
45	120.9	76.0	47.8	30.1	18.9	11.9	7.5
50	108.8	68.4	43.0	27.1	17.0	10.7	6.7
55	98.9	62.2	39.1	24.6	15.5	9.7	6.1
60	90.7	57.0	35.9	22.6	14.2	8.9	5.6
65	83.7	52.6	33.1	20.8	13.1	8.2	5.2
70	77.7	48.9	30.7	19.3	12.2	7.6	4.8
75	72.5	45.6	28.7	18.0	11.3	7.1	4.5
80	68.0	42.8	26.9	16.9	10.6	6.7	4.2
85	64.0	40.3	25.3	15.9	10.0	6.3	4.0
90	60.5	38.0	23.9	15.0	9.5	5.9	3.7
96	56.7	35.6	22.4	14.1	8.9	5.6	3.5

Power Supplies

See fixture and power supply instructions & spec sheet for wiring information. Dimming possible in select models - view Luminii website for list of compatible dimmers.

For use with Warm Dim, WD68

Triac, MLV, & ELV Compatible Dimmers

MODEL	POWER	OUTPUT
	-	-
PDC - (IP20) Power Supply	96 - 96 Watts	24 - 24 VDC

MODELS	96W
Length	8.25"
Width	4.10"
Depth	1.56"
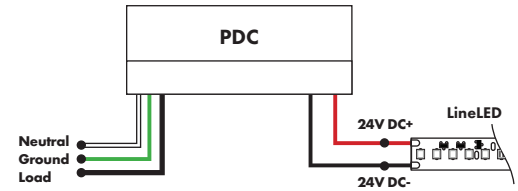
For use with Dynamic White, DW68

0-10V Warm Dimming 0% Power Supply 120VAC - 277VAC
(for warm dimming of Dynamic White option)

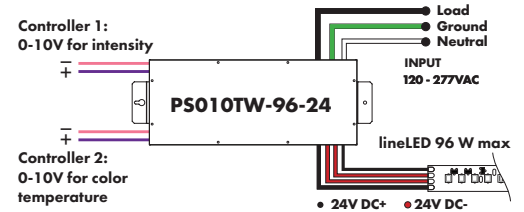| MODEL	POWER	OUTPUT
PS010WD - 0-10 Warm dim LED Power Supply	96 - 96 Watt	24 - 24 VDC

Requires a 0-10V controller to work properly
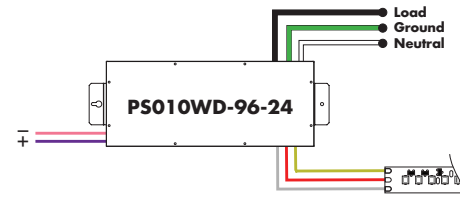
0-10V Tunable White 0% Dimming Power Supply 120VAC - 277VAC
(for tunable white control of Dynamic White option)

MODEL	POWER	OUTPUT
PS010TW - 0-10 Tunable White LED Driver	96 - 96 Watt	24 - 24 VDC

MODELS	PS010TW
A Length	14.40"
B Width	2.60"
C Depth	5.20"

Requires two 0-10V controllers to work properly

Customizable Dim to Warm or Variable White via 0 - 10V
(for tunable white or warm dimming control of Dynamic option)

| MODEL	POWER	OUTPUT	CONTROL
PS010V - 0-10 LED Driver	96 - 96 Watt	24 - 24 VDC	WW - Standard One Channel - Dim To Warm Curve
			W2C - Standard Two Channel - Dim 1: Intensity; Dim 2: CCT
			W21 - Standard Two Channel - Dim 1: Warm Channel Intensity; Dim 2: Cool Channel Intensity
			W1X- ____ Custom One Channel - Dim To Warm Curve
			W2X- ____ Custom two Channel - Dim 1: Intensity; Dim 2: CCT

Requires a 0-10V controller to work properly
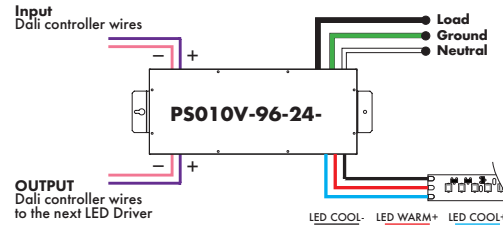
For use with RGB/RGBW/Pixel, RGB42/RGBW36/RGBX18/RGBWX18

Non-Dimming Power Supply 120VAC - 277VAC

MODEL	POWER	OUTPUT	DIMMING	LOCATION
	-	-	-	-
PSV - PSV Series	96 - 96 Watt	24 - 24 VDC	ND - Non Dimming	D - Dry location

Requires a controller and a decoder to work properly

MODELS	96W
A Length	14.40"
B Width	5.20"
Depth	2.60"
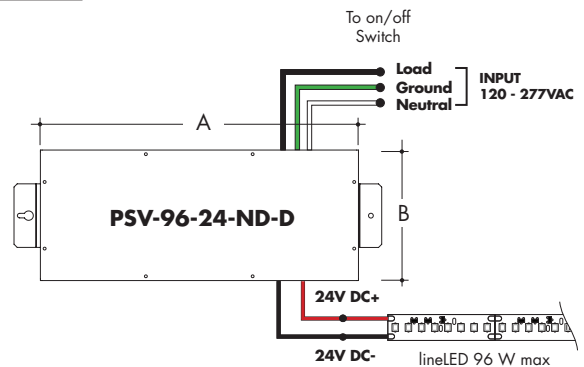
Power Supplies

See fixture and power supply instructions & spec sheet for wiring information. Dimming possible in select models - view Luminii website for list of compatible dimmers.

For use with RGB/RGBW, RGB42/RGBW36 or with Dynamic White, DW68

DMX 0% Dimming Power Supplies 120VAC - 277VAC

MODEL	POWER	OUTPUT

PSDMX - DMX Power Supply dims down to 0%
96 - 96 Watt
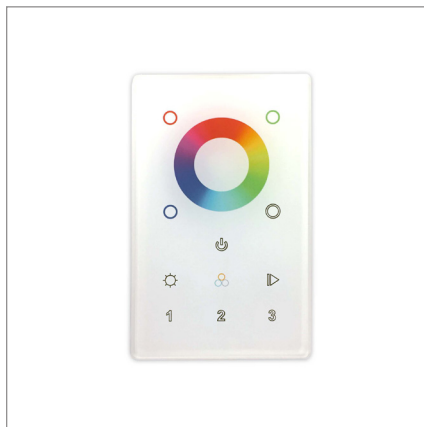**3X96** - 3 X 96 Watt
24 - 24 VDC

Features eldoLED's LINEARdrive configurable dimmable drivers.
DDMX-RGBW DMX Decoder not required when purchasing this power supply.

	MODELS	96W	3X96
A	**Length**	14.40"	15.75"
B	**Width**	5.20"	6.62"
	Depth	2.60"	4.95"
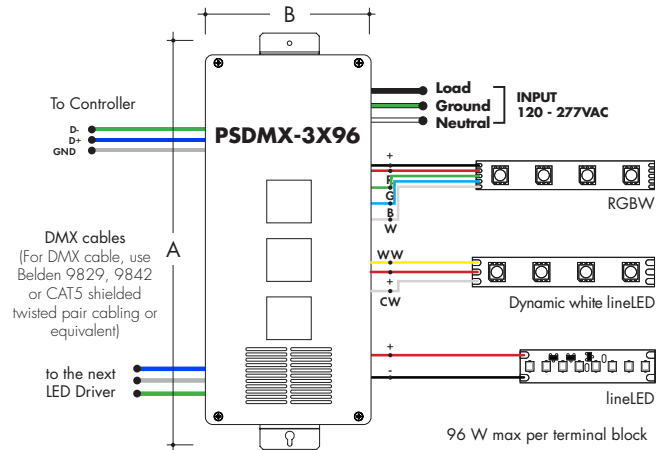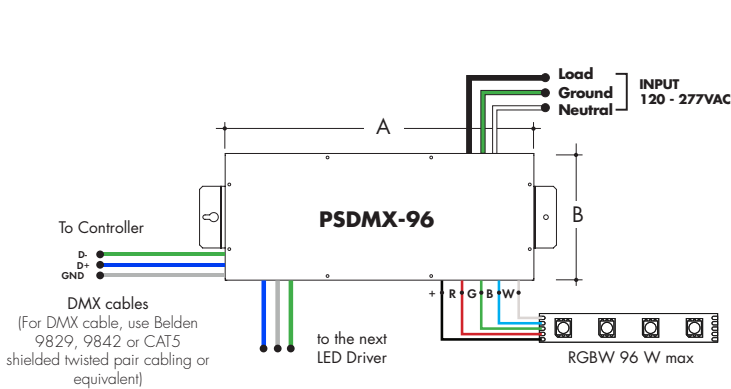
DMX-1Z-RGBW, DMX-3Z-RGBW

RGBW LED 1 or 3 Zone Controller

DMX /Wireless RGB-W wall-mount controller controls DMX lighting fixtures, wireless control of RGB-W lighting fixture or use both simultaneously. Fits in any standard US switch box. Includes all the outputs in the back of the controller.

Control brightness levels with a single touch, personalize and memorize 3 different scenes, and even create 3 variations of white.

Features

- 2 in 1 in-Wall Controller: DMX Control or Wireless RGB-W
- 65,000 Color Options, Dimming and Speed Control
- Memory Function
- 50 Foot Wireless Range
- Easily Fits Standard US Switch Boxes
- Touch Sensitive Glass Surface
- Includes 10 Built in Programs, or Create and Play Your Own

Operating Voltage

12 - 24V DC

Color Parameters

- Brightness
- Saturation
- Primary colors
- Fading
- Color changing speed

ORDERING CODE

MODEL	ZONES	COLOR

DMX - DMX Controller
3Z - Three Zone
1Z - One Zone
RGBW - Red, Green, Blue, & White

III**luminii**

Touch DMX Controller

Touchscreen digital LED controller

Programmable advanced DMX512 lighting controller featuring a touch-screen interface. Operates as stand alone controller or integrated with most architectural lighting control systems. Can controller endless DMX512 enabled devices.

Mounts to standard single or dual gang wall box with the included power supply inside the junction box. Terminal block design for power and data connections.

Features

- Sleek glass design which sits 0.43" from the wall
- Graphical color display to show selected environment
- Color/dimmer/speed palette
- Color temperature mixing
- Touch sensitive buttons. No mechanical parts
- Touch sensitive wheel allows for accurate color selection
- Multi-zone microSD memory
- Multi-room control with 500 scenes, 10 zones
- 1024 DMX channels. Control 340 RGB fixtures
- USB & Ethernet connectivity for programming and control

Power Supply

7 VDC (included)

Programmability

PC, Mac, Tablet, Smartphone

Output Signal
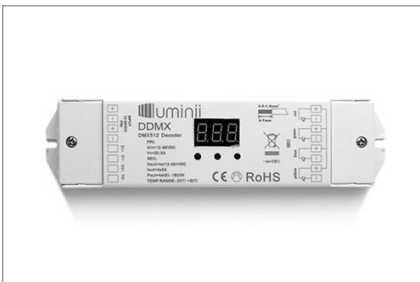
DMX512 (1024 channels)

Color Parameters

- Brightness
- Saturation
- Speed of color changing sequence
- Fading / dimming / brightness

MODEL

TSDMX-E

TSDMX-E - Touchscreen DMX controller

DMX Decoder

DMX signal to RGBW decoder (required to operate DMX controller)

Translates controller DMX512 programs for RGB and white LED strips.

Unique DMX address for the decoder can be set easily and displayed by the numeric display on the case. Changing and resetting the DMX address requires manual input.

Use power repeater to expand output.

Operating Voltage

12-36 VDC

Power Capacity

up to 96W at 24V

Operating Temperature Range

from -4°F to +122°F in case

ORDERING CODE

MODEL

DDMX-RGBW

DDMX-RGBW - DMX decoder

Smart Pixel Decoder

SPI signal to DMX signal decoder

The SR-DMX-SPI is a smart LED pixel decoder that controls RGB/RGBW pixel LED strips with SPI signal. Designed with an OLED backlit panel, the pixel controller allows for easy configuration of most settings. Four push buttons are available for control of the LED functions.

*For pixel only.

Features

- 2 in 1 in-Wall Controller: DMX Control or Wireless RGB-W
- SPI signal output for RGB/RGBW pixel light control
- DMX512 controllable and RF/WIFI remote controllable
- Capable of addressing up to 1020 RGB pixels & 765 RGB pixels
- OLED panel allows for easy configuration

Operating Voltage

12 - 36V DC

Power capacity

up to 96W at 24V

Operating temperature range

from -4°F to +122°F in case

Model

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