

Project:		Item #:	LC-3528-112-12-24V-IP20-YD1806-DRIVER	Approved:	
Location:		Type:		Date:	

LED Strip Light - ECO Series



This flexible LED light strip is great for cabinet lighting, under-cabinet lighting, toe-kick lighting, cove lighting, task lighting, bookshelf lighting, showcase lighting, cupboard lighting, bias lighting, or for other indoor applications where space is limited.

Features

- Slim, flexible and cuttable design allows for easy installation and illuminates every edge with light.
- Perfect for ambient light with low power consumption and good performance at low cost.
- Easy installation featuring 3M VHB adhesive backing.
- Dimmable available with PWM, Forward phase, Triac, 0-10V, MLV, ELV.
- 50,000h long lifespan with 5 years limited warranty.
- UL listed.

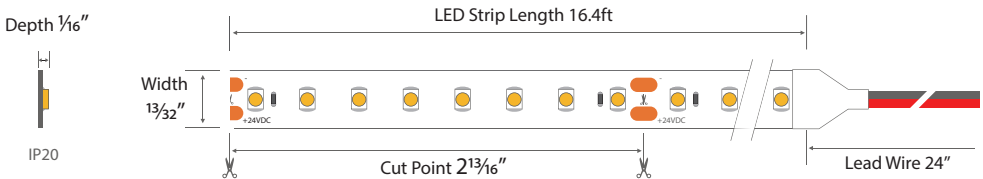


Specification

Input Voltage	24VDC			
Dimmable	PWM, Forward phase, Triac, 0-10V, MLV, ELV			
Lead Wire	20 AWG, 2ft (2 Wires)			
Color Temperature	2700K	3000K	3500K	4000K
Brightness	316 lm/ft	322 lm/ft	335 lm/ft	348 lm/ft
Light Efficacy	105 lm/W	107 lm/W	111 lm/W	116 lm/W
Power Consumption	3W/ft			

LED Quantity	34 LEDs/ft
No Voltage Drop	16.4 ft Max
LED Chip	3528
Operating Ambient Temperature	-13°F~104°F
LED Lifetime	50,000 hrs
CRI	90+
IP Rating	IP20 (Dry location)

Dimension



Order Information

LED Type	LED Quantity per Meter	Color Temperature	Voltage	IP Rate
LC — <input type="text" value="3528"/>	— <input type="text" value="112"/>	— <input type="text" value="2700K"/>	— <input type="text" value="24-24VDC"/>	— <input type="text" value="IP20-Nonwaterproof"/>
		<ul style="list-style-type: none"> ■ 2700K ■ 3000K ■ 3500K ■ 4000K 		

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Voltage Drop Guidance Chart

This table provides general guidelines for determining Wire Gauge based on total load and distance from LED transformer to beginning of luminaire.

24V Voltage Drop & Wire Length Distance Chart (3% Drop or 23.28V)

Wire Gauge (AWG)	10W 0.42A	20W 0.83A	30W 1.3A	40W 1.7A	50W 2.1A	60W 2.5A	70W 2.9A	80W 3.3A	90W 3.75A	100W 4.2A
20	85ft	43ft	27ft	21ft	17ft	14ft	12ft	11ft	9ft	8ft
18	134ft	68ft	45ft	33ft	27ft	22ft	19ft	17ft	15ft	14ft
16	215ft	109ft	72ft	54ft	43ft	36ft	31ft	27ft	24ft	22ft




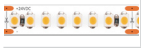




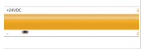





Step 1: Calculate Total Load: Check the power consumption of the LED light (e.g. 3W/ft). Calculate the total load of the LED light based on the light length (e.g. 10ft). The total load is 3W/ft x 10ft = 30W.

Step 2: Find Distance from Transformer to the Light Beginning: Check the distance between the transformer to the beginning of the light onsite. Let's assume it is 40ft. Round up to the nearest one on the table (Column 30W), which is 45ft.

Step 3: Choose Suitable Wire Gauge: According to the table (Column 30W & Row 45ft), it's recommended to use 18AWG or up wire between the transformer and LED light to eliminate voltage drop.

Note: This table is calculated based on the theoretical voltage drop formula. The wire quality, the LED light technology and environment conditions affect the result also. This table is only for reference.

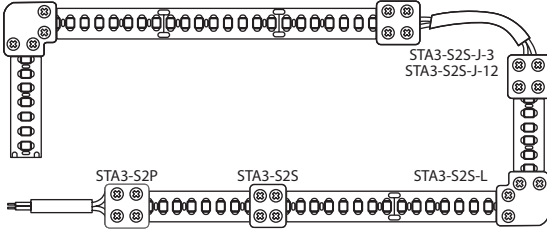
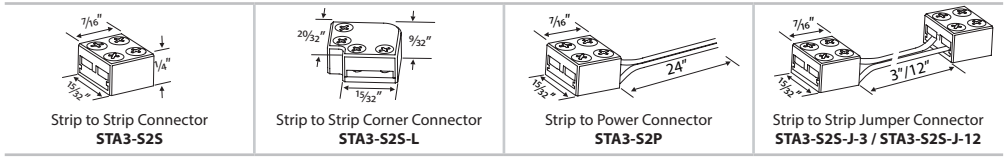
LED Strip Light Comparison Chart

	Series	Features	Color Temperature	Input Voltage	Lumen Output	No Voltage Drop	Power	CRI
	DIM TO WARM	Light Efficiency 105LM/W	1800K~3000K	24VDC	Up to 462 lm/ft	16.4ft Max	4.4W/ft	97+
	INFINITE	Max Run 65.6ft	2400K, 2700K, 3000K, 3500K, 4000K	24VDC	Up to 234 lm/ft	65.6ft Max	3W/ft	90+
	ECO	Cost Effective	2700K, 3000K, 3500K, 4000K	24VDC	Up to 348 lm/ft	16.4ft Max	3W/ft	90+
	PRO	73 LEDs/ft	2700K, 3000K, 4000K	24VDC	Up to 575 lm/ft	16.4ft Max	4.4W/ft	90+
	LEGEND-7	Brightest CRI 97+	1800K, 2700K, 3000K, 3500K, 4000K, 6000K, Blue, Red	24VDC	Up to 848 lm/ft	16.4ft Max	7W/ft	97+
	LEGEND-4.4	32.8ft Run, CRI 97+	2700K, 3000K, 3500K, 4000K	24VDC	Up to 488 lm/ft	32.8ft Max	4.4W/ft	97+
	LEGEND-3	CRI 97+, 0.2" Wide	2700K, 3000K, 4000K	12VDC	Up to 268 lm/ft	16.4ft Max	3W/ft	97+
	NARROW	0.2" Wide	2700K, 3000K, 4000K	12VDC	Up to 339 lm/ft	16.4ft Max	3W/ft	90+
	COB	Seamless	2700K, 3000K, 4000K, 6000K	24VDC	Up to 416 lm/ft	16.4ft Max	4.4W/ft	90+
	FOR SAUNA	Waterproof & Heat-resistant	2700K, 3000K, 4000K, 6000K	24VDC	Up to 287 lm/ft	16.4ft Max	3W/ft	90+
	SIDE BEND	Bendable & Freely Cuttable	2700K, 3000K, 4000K, 6500K	12VDC	Up to 457 lm/ft	16.4ft Max	4.4W/ft	90+
	SPI	Digital, Programmable LED	2700K, 3000K, 4000K	12VDC	Up to 301 lm/ft	16.4ft Max	4.4W/ft	90+
	FOR BREAD	Fresh Bread	2500K	12VDC	Up to 200 lm/ft	16.4ft Max	4.4W/ft	90+
	FOR MEAT	Fresh Meat	2900K	12VDC	Up to 200 lm/ft	16.4ft Max	4.4W/ft	90+

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Accessories (Sold Separately)

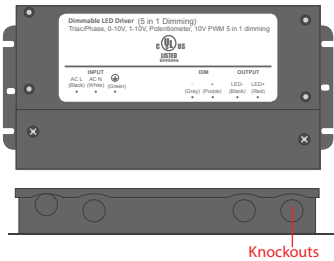
STA3 Series provide an easier and more secure connection for Low Voltage LED strip lights.



- Solderless screw tight.
- Load large current, up to 10A.
- Suitable for width 0.31 and 0.39in LED strip light.
- Suitable for both low density and high density LED strip light.
- All STA3 connectors are **Non-Waterproof**. Extra steps are needed when connecting waterproof strip lights.

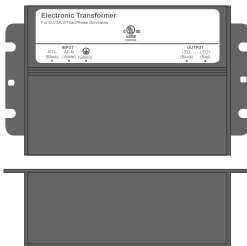
Recommended Transformer (Sold Separately)

LED Dimmable Transformer - 5 in 1 dimming



Model No.	Output Voltage	Wattage	Dimensions (L x W x H)	Certificates
G-60W-24V-DWJ	24V	60W	7 ³ / ₃₂ "x3 ³ / ₄ "x1 ³ / ₁₆ "	FCC, UL, Class 2
G-96W-24V-DWJ	24V	96W	8 ² / ₃₂ "x3 ³ / ₄ "x1 ² / ₃₂ "	FCC, UL, Class 2
G-150W-24V-DWJ	24V	150W	10 ⁹ / ₃₂ "x4 ⁵ / ₃₂ "x1 ¹ / ₁₆ "	FCC, UL
G-200W-24V-DWJ	24V	200W	10 ⁹ / ₃₂ "x4 ⁵ / ₃₂ "x1 ¹ / ₁₆ "	FCC, UL
G-300W-24V-DWJ	24V	300W	10 ⁹ / ₃₂ "x4 ⁵ / ₃₂ "x1 ¹ / ₁₆ "	FCC, UL
G-600W-24V-DWJ	24V	600W	11 ¹ / ₃₂ "x5 ¹ / ₃₂ "x1 ³ / ₃₂ "	FCC, UL
G-60W-24V-DWL	24V	60W	11 ² / ₃₂ "x1 ⁹ / ₃₂ "x1 ³ / ₁₆ "	UL
G-100W-24V-DWL	24V	100W	13"x1 ¹ / ₃₂ "x2 ² / ₃₂ "	UL
G-150W-24V-DWL	24V	150W	13"x1 ¹ / ₃₂ "x2 ² / ₃₂ "	UL

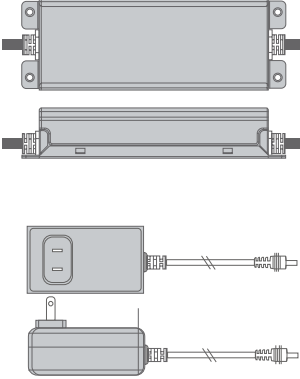
LED Dimmable Transformer - ELV Dimming



Model No.	Output Voltage	Wattage	Dimensions (L x W x H)	Certificates
ETF-60W-24V-TDA	24V	60W	3 ¹ / ₁₆ "x1 ¹ / ₂ "x1 ¹ / ₃₂ "	FCC, UL, Class 2, Class P
ETF-96W-24V-TDA	24V	96W	3 ¹ / ₁₆ "x1 ¹ / ₂ "x1 ¹ / ₃₂ "	FCC, UL, Class 2, Class P
ETF-60W-24V-TDJ1	24V	60W	5"x3 ¹ / ₄ "x1 ² / ₃₂ "	FCC, UL, Class 2, Class P
ETF-96W-24V-TDJ1	24V	96W	5"x3 ¹ / ₄ "x1 ² / ₃₂ "	FCC, UL, Class 2, Class P
ETF-150W-24V-TDJ1	24V	150W	6 ¹ / ₃₂ "x3 ³ / ₁₆ "x1 ² / ₃₂ "	FCC, UL, Class P
ETF-200W-24V-TDJ1	24V	200W	6 ¹ / ₃₂ "x3 ³ / ₁₆ "x1 ² / ₃₂ "	FCC, UL, Class P
ETF-300W-24V-TDJ1	24V	300W	6 ¹ / ₃₂ "x3 ³ / ₁₆ "x1 ² / ₃₂ "	FCC, UL, Class P

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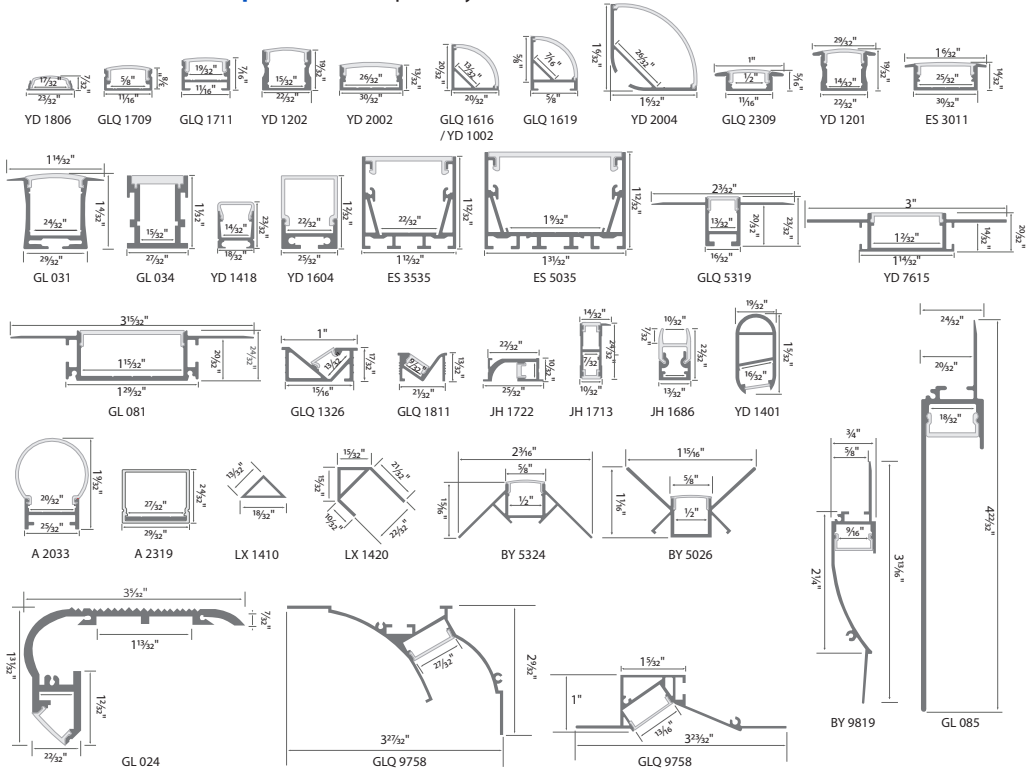
LED Non-Dimmable Transformer



Model No.	Output Voltage	Wattage	Dimensions (L x W x H)	Certificates
APV-8W-24V	24V	8W	2 ⁷ / ₈ "x1 ¹³ / ₁₆ "x ⁷ / ₈ "	CE, RU, Class 2
APV-35W-24V	24V	35W	3 ⁷ / ₈ "x2 ¹ / ₄ "x1 ¹ / ₂ "	CE, RU, Class 2
LPV-60W-24V	24V	60W	6 ¹ / ₂ "x1 ¹ / ₁₆ "x1 ¹ / ₂ "	CE, RU, Class 2
XLG-100W-24V	24V	100W	5 ¹⁷ / ₃₂ "x2 ¹ / ₂ "x1 ¹ / ₃₂ "	CE, RU
XLG-150W-24V	24V	150W	7 ³ / ₃₂ "x2 ¹ / ₂ "x1 ¹ / ₁₆ "	CE, RU
XLG-200W-24V	24V	200W	7 ²⁷ / ₃₂ "x2 ¹ / ₂ "x1 ¹ / ₃₂ "	CE, RU
HLG-320W-24V	24V	320W	9 ¹ / ₁₆ "x3 ³ / ₁₆ "x1 ² / ₃₂ "	CE, RU
HLG-600W-24V	24V	600W	11 ¹ / ₃₂ "x3 ¹ / ₁₆ "x1 ² / ₃₂ "	CE, RU

Model No.	Output Voltage	Wattage	Dimensions (L x W x H)	Certificates
YHY-36W-24V	24V	36W	3 ¹ / ₃₂ "x1 ² / ₃₂ "x2 ⁵ / ₃₂ "	UL, FCC, CE
YHY-60W-24V	24V	60W	4 ¹⁷ / ₃₂ "x1 ¹ / ₃₂ "x1 ⁷ / ₃₂ "	UL, FCC, CE
TPZ-96W-24V	24V	96W	6 ² / ₃₂ "x2 ²⁷ / ₃₂ "x1 ¹ / ₃₂ "	UL, FCC, CE

Aluminum Channel Options (Sold Separately)



Note: This product is 13/32" width light strip and is not suitable for JH 1722, JH 1713, JH1686, GLQ 1811.