

LED Strip Light -- LEGEND Series



This LED Light strip is perfect for retail shops, jewelry cases, supermarkets, food and meat cases, museums, galleries, videography, under-cabinet lighting, or any indoor applications where presentation, appearance, and depth of color are critical.

Features

- Slim, flexible and cuttable design allows for easy installation and illuminates every edge with light.
- Superior brightness output and no hotspot with high density LEDs for commercial-grade lighting at 94+ CRI.
- 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.

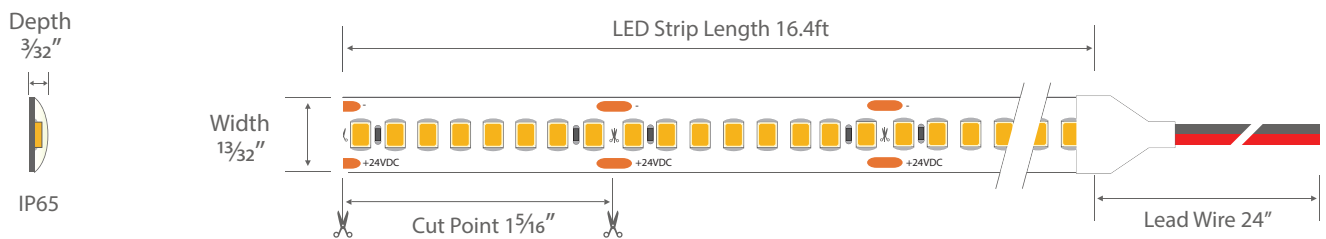


Specification

| | | | | |
|--------------------------|--|-----------|-----------|-----------|
| Input Voltage | 24VDC | | | |
| Dimmable | PWM, Forward phase, Triac, 0-10V, MLV, ELV | | | |
| Lead Wire | 20 AWG, 2ft | | | |
| Color Temperature | 2700K | 3200K | 4000K | 6500K |
| Brightness | 671 lm/ft | 671 lm/ft | 762 lm/ft | 738 lm/ft |
| Light Efficacy | 96 lm/W | 96 lm/W | 109 lm/W | 105 lm/W |
| CRI | 97+ | | | |

| | |
|------------------------------|---------------------|
| LED Quantity | 73 LEDs/ft |
| Maximum Run Length | 16.4 ft |
| LED Chip | 2835 |
| Operating Temperature | -13°F~104°F |
| Lumen Maintenance | 50,000 hrs |
| Power Consumption | 7W/ft |
| IP Rating | IP65 (Wet location) |

Dimension



Order Information

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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.

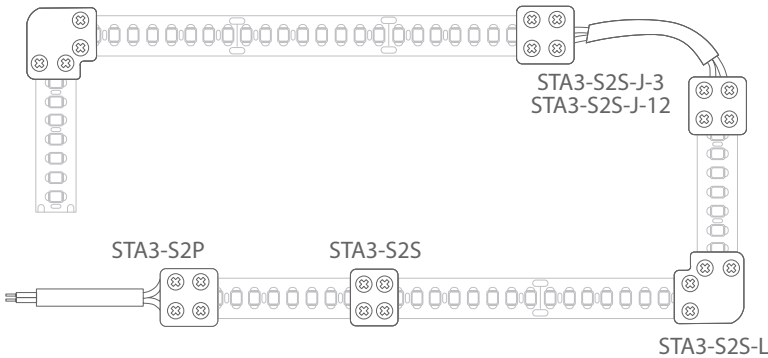
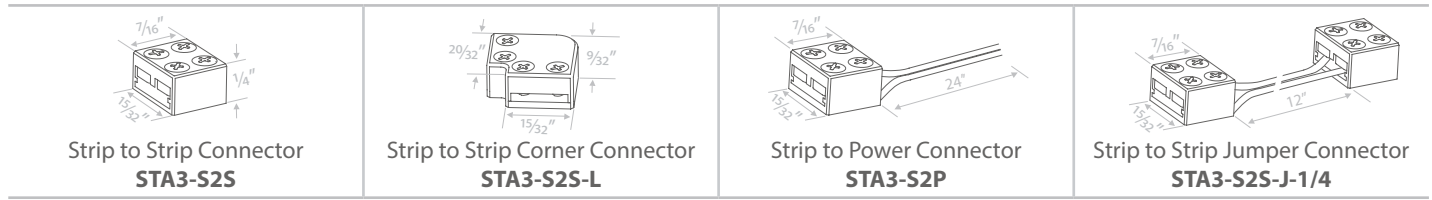
LED Strip Light Comparison Chart

| | 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 | 2700K, 3000K, 3500K, 4000K | 24VDC | Up to 234 lm/ft | 65.6ft Max | 3W/ft | 90+ |
|  | ECO | Cost Effective | 2700K, 3000K, 4000K | 12VDC | Up to 226 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 | Brightest CRI 94+ | 1800K, 2700K, 3000K, 4000K, 6500K, Blue, Red | 24VDC | Up to 848 lm/ft | 16.4ft Max | 7W/ft | 97+ |
|  | NARROW | 0.2in Width | 2700K, 3000K, 4000K | 12VDC | Up to 339 lm/ft | 16.4ft Max | 3W/ft | 90+ |
|  | COB | Seamless | 2700K, 3000K, 4000K, 6500K | 24VDC | Up to 416 lm/ft | 16.4ft Max | 4.4W/ft | 90+ |
|  | FOR SAUNA | High temperature Resistance | 2700K, 3000K, 4000K, 6000K | 24VDC | Up to 287 lm/ft | 16.4ft Max | 3W/ft | 90+ |
|  | SIDE BEND | Bendable & Cut Flexible | 2700K, 3000K, 4000K, 6500K | 12VDC | Up to 457 lm/ft | 16.4ft Max | 4.4W/ft | 90+ |
|  | TUNABLE WHITE | Tunable | 1800K-6500K | 24VDC | Up to 498 lm/ft | 16.4ft Max | 7W/ft | 97+ |
|  | FOR BREAD | Fresh Bread | 2500K | 12VDC | Up to 200 lm/ft | 16.4ft Max | 4.4W/ft | 97+ |
|  | FOR MEAT | Fresh Meat | 2900K | 12VDC | Up to 200 lm/ft | 16.4ft Max | 4.4W/ft | 97+ |

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Accessories (Sold Separately)

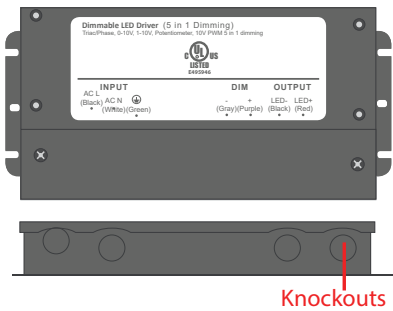
STA3 Series provide an easier and more secure connection for Low Voltage LED strip lights.



- 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.

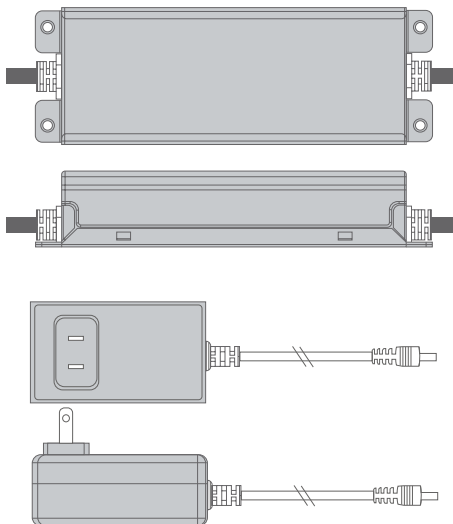
Recommended Transformer (Sold Separately)

LED Dimmable Transformer - 5 in 1 dimming
G Series



| Model No. | Output Voltage | Wattage | Dimensions (L x W x H) | Certificates |
|------------|----------------|---------|--|------------------|
| G-60W-24V | 24V | 60W | 7 ¹ / ₃₂ "x3 ³ / ₄ "x1 ³ / ₄ " | FCC, UL, Class 2 |
| G-96W-24V | 24V | 96W | 8 ² / ₃₂ "x3 ³ / ₄ "x1 ²³ / ₃₂ " | FCC, UL, Class 2 |
| G-150W-24V | 24V | 150W | 10 ⁹ / ₃₂ "x4 ⁵ / ₃₂ "x1 ¹⁵ / ₁₆ " | FCC, UL, Class 2 |
| G-200W-24V | 24V | 200W | 10 ⁹ / ₃₂ "x4 ⁵ / ₃₂ "x1 ¹⁵ / ₁₆ " | FCC, UL, Class 2 |
| G-300W-24V | 24V | 300W | 10 ⁹ / ₃₂ "x4 ⁵ / ₃₂ "x1 ¹⁵ / ₁₆ " | FCC, UL, Class 2 |

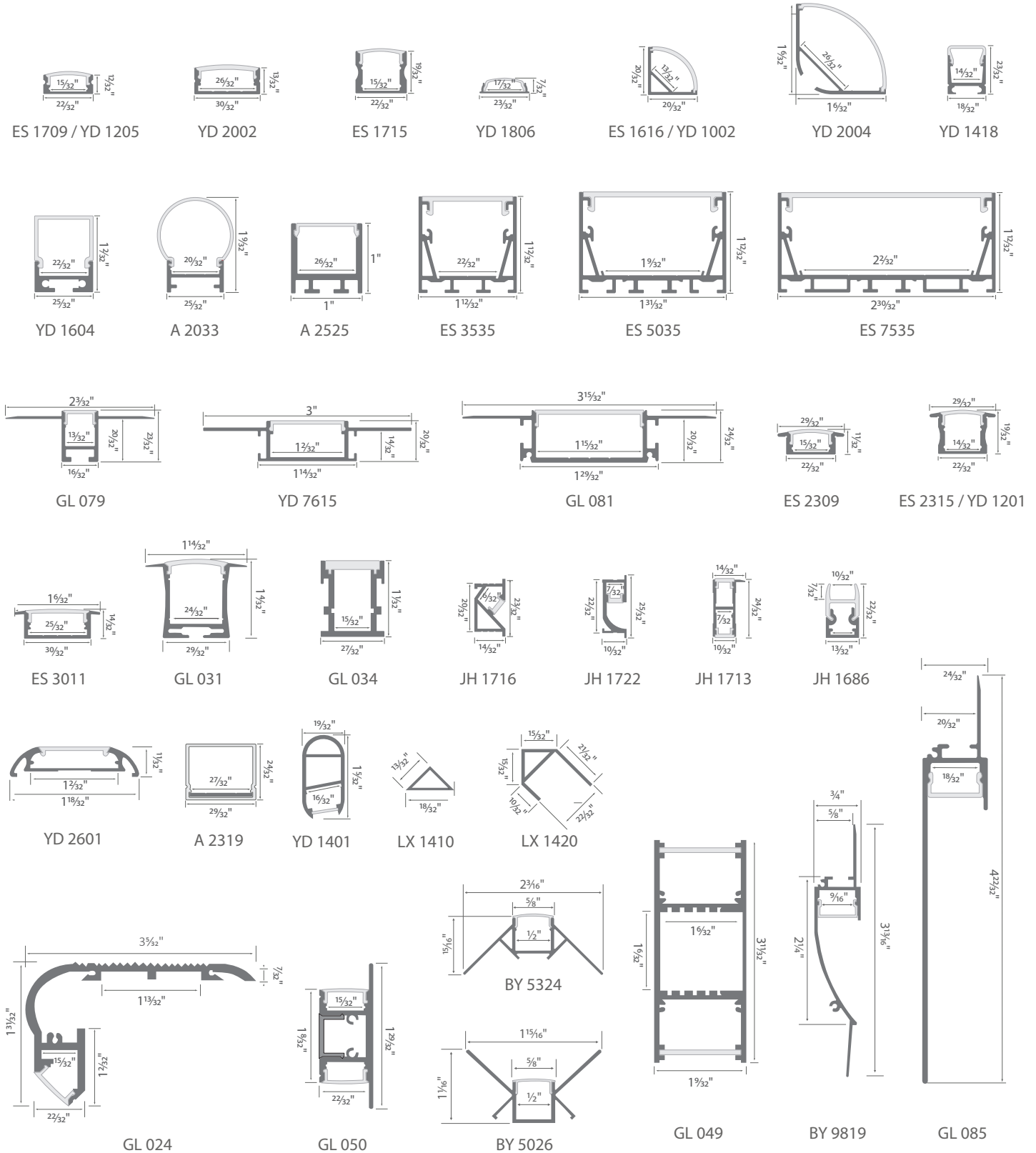
LED Non-Dimmable Transformer



| Model No. | Output Voltage | Wattage | Dimensions (L x W x H) | Certificates |
|--------------|----------------|---------|------------------------|-----------------|
| APV-8W-24V | 24V | 8W | 2.30x1.20x0.90in | CE, RU, Class 2 |
| APV-35W-24V | 24V | 35W | 3.30x2.20x1.20in | CE, RU, Class 2 |
| LPV-60W-24V | 24V | 60W | 6.40x1.70x1.30in | CE, RU, Class 2 |
| XLG-100W-24V | 24V | 100W | 5.50x2.50x1.25in | CE, RU |
| XLG-150W-24V | 24V | 150W | 5.51x2.48x1.26in | CE, RU |
| XLG-200W-24V | 24V | 200W | 7.09x2.48x1.40in | CE, RU |
| HLG-320W-24V | 24V | 320W | 9.90x3.50x1.70in | CE, RU |
| HLG-600W-24V | 24V | 600W | 11.00x5.70x1.90in | CE, RU |

| Model No. | Output Voltage | Wattage | Dimensions (L x W x H) | Certificates |
|-------------|----------------|---------|------------------------|--------------|
| YHY-36W-24V | 24V | 36W | 3.40x1.90x1.25in | UL, FCC, CE |
| YHY-60W-24V | 24V | 60W | 4.50x1.90x1.20in | UL, FCC, CE |
| TPZ-96W-24V | 24V | 96W | 7.00x3.10x1.80in | UL, FCC, CE |

Aluminum Channel Options (Sold Separately)



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