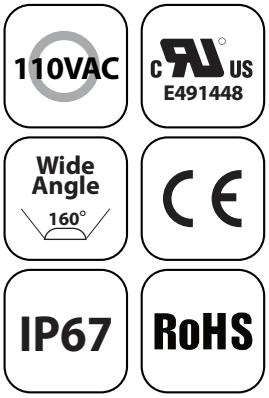
Characteristics



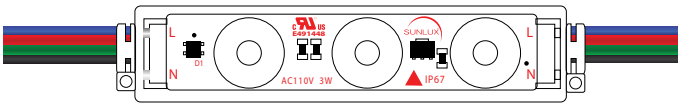


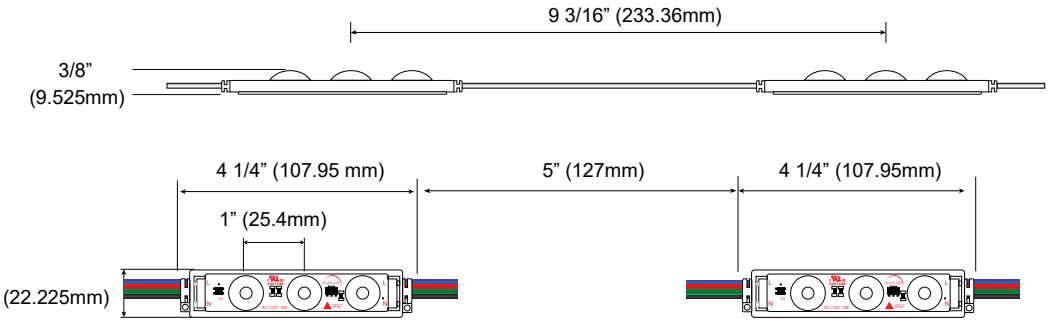
SUNLUX
Light Up The World

High Luminous Efficacy LED module Solution for Signage and Cabinets

- Fully integrated 160º optical lens for wide and evenly distributed light
- Surface mount on aluminum substrate, good thermal conductivity and electrical
- Insulation performance provides great weather protection IP67
- Secure and easy fastening with genuine double coated tissue 3M adhesive
- Lifetime of more than 45,000 hours (L70)
- High strength ABS plastic body for harsh environments
- Electrical and material safety certified (UL, CE and RoHS Certificates)
- 3- Year Limited Warranty: subject to terms and conditions; see full warranty policy for details. (Page 5)

Physical





Optical Characteristics

Color	Power Consumption (Watt)	Operating Voltage	Luminous Flux (lm)	Luminous Efficiency (lm/W)	Viewing Angle
RGB	3.0	110V	300	116.67	165 (2Θ½)

Electrical Characteristics

Power Consumption: 3.0W // Operating power: 110/220VAC
Maximum quantity for serial connection: 100 modules.
**Connecting more than 100 modules in series will result in unstable brightness

Thermal

Operating ambient temperature: -20°C ~ 60°C
Storage ambient temperature: -40°C ~ 80°C

Ingress Protection

IP67: Complete protection against dust and water.
Immersion up to 1 meter **under defined condition of pressure and time**.

Construction

LED type: SMD 2835 // Body, Lens, PCB: ABS, PC and FR-4
Cable: UL, AWM2468 24AWG 600V 105ºC
Pre-mounted 3M adhesive tape and screwing hole for mechanics fastening

Approval

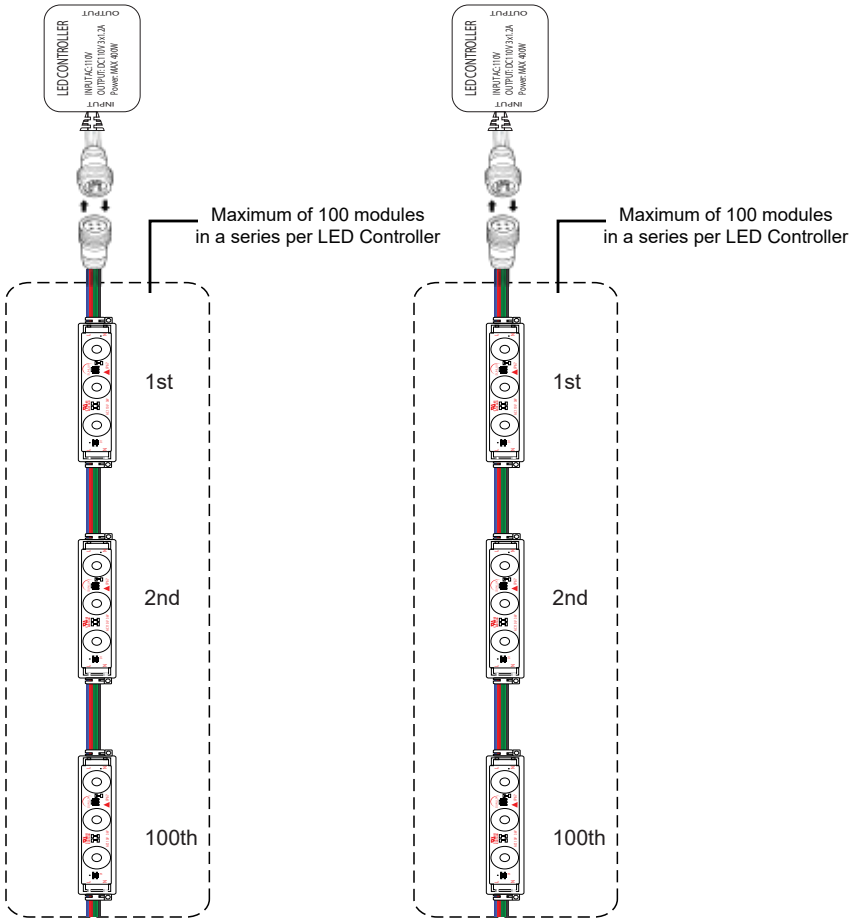
UL Certified E491448

Packaging

Carton box: 100 modules (76 feet) // Master carton box: 1000 modules (10 carton box, 760 feet)

Wiring Guide

Input AC 110V



Step-by-Step Installation Guide

(Model Nº MX-AC-50-150-RGB)

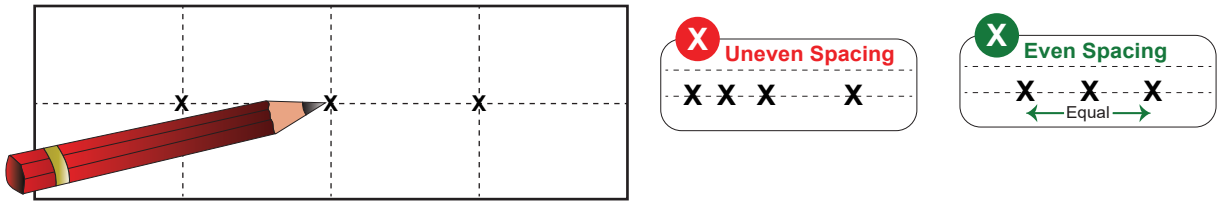
Required Tools	• 110V LED Modules • Wirenuts • Wire Stripper • LED Wire for 110VAC LED Modules <= 18AWG >= 600V
Package Contents	• 100 LED modules pcs/box ~ 76Ft
Safety Warnings	• LED modules must be installed and operated by qualified professionals • Cut off the 110V power before installation • Do not handle electrical parts with wet hands • Use appropriate personal protective equipment (PPE), such as safety shoes, gloves, etc.

1. Prepare the Area

Clean and dry the installation surface to ensure it is free of dust, grease, or any debris.

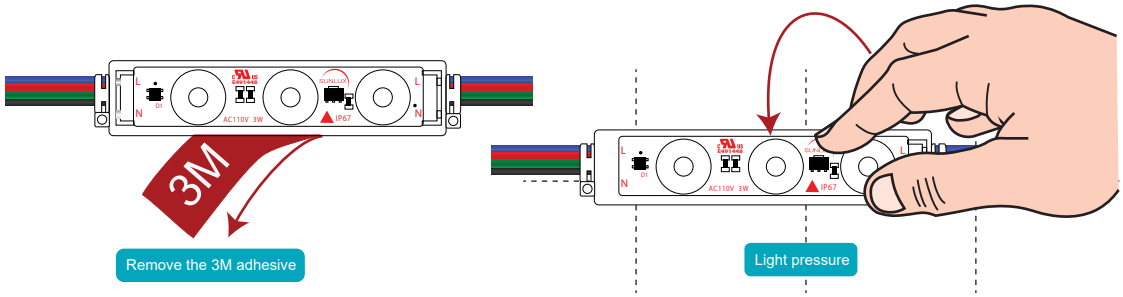
2. Measure and Mark

Measure the area to ensure even spacing and proper alignment of the LED modules. Mark the positions before mounting.



3. Mount the LED Modules

- A maximum of 100 LED modules should be connected in series to a one LED Controller. All additional series should be connected to a separate LED controller.
- Remove the 3M adhesive backing from each LED Module.
- Place each LED module in the marked position and apply light pressure to activate the adhesive.



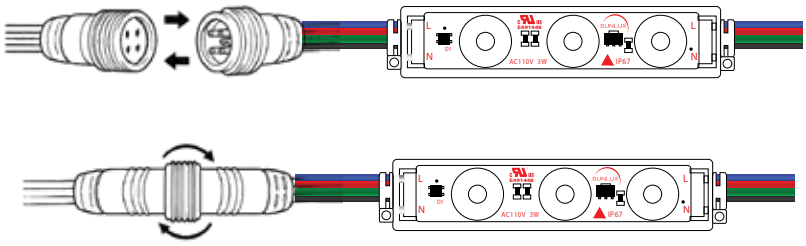
4. Adhesive Activation

The 3M adhesive is designed to strengthen over time, especially with exposure to heat, improving its bonding performance

* It is recommended to use silicone to ensure a better adhesion to sucure the LED modules, when screws are not used, ensuring long-term stability
* Customer can determine the type of silicone based on the installation surface

5. Install the RGB LED Controller

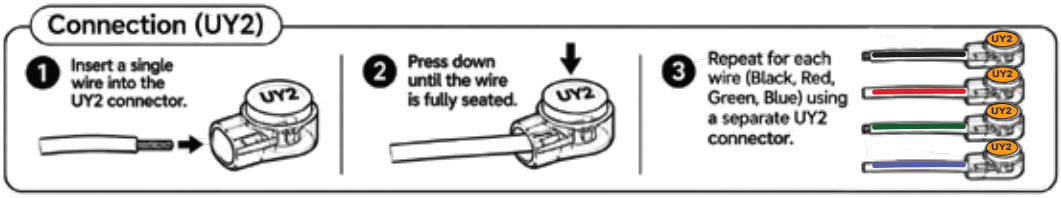
- Use appropiate equipment for a safe installation
- Ensure the main power 110VAC is cut off during installation
- **Connect the 110VAC RGB LED Controller to the RGB LED modules** by threading the female connector onto the corresponding male conductor.



6. Verification

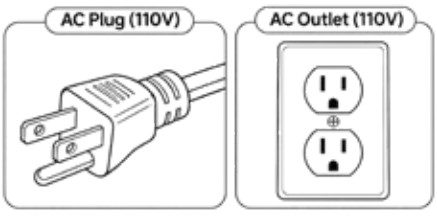
Verify that all connections are correct.

IMPORTANT: To prevent short circuits, install a UY2 Connector on each conductor (Black +, Red, Green, Blue) at the cut end of the cable whenever fewer than 100 modules are used.



7. Connect the RGB Controller to the 110V

- Connect the RGB Controller to a 110V Outlet.
- Select your desired color using the RGB remote Control.



Product Warranty Policy

ELITE LED SUPPLY is committed to excellence in product quality and the full satisfaction of its customers. In support of this commitment, it provides a five (3) year limited warranty covering the repair or replacement of products under **specified operating conditions and in accordance with the product specifications.**

Operating Conditions:

(Model Nº MX-AC-50-150-RGB)

- LED modules must be installed and operated by qualified professionals.
- LED modules must operate within the specified electrical range and environmental conditions (ingress protection rating of IP67).
- A maximum of 100 LED modules should be connected in series. All additional series should be connected in parallel.

Warranty Coverage:

(Model Nº MX-AC-50-150-RGB):

- Warranty cover the repair or replacement of LED modules under specified operating conditions.

Period Coverage:

(Model Nº MX-AC-50-150-RGB):

- The warranty is valid for 3 years from the day of purchase

Warranty dose not Cover:

(Model Nº MX-AC-50-150-RGB):

- Misuse, improper installation, electrical surges, or physical damage
- Labor or installation costs
- Shipping and delivery costs for warranty claims, **unless otherwise stated**

Warranty Terms and Conditions

(Model Nº MX-AC-50-150-RGB):

- Defective LED modules must be reported within 48 hours of receipt
- All the claims require a valid proof of purchase (Invoice) which must match ELITE LED SUPPLY records
- LED modules are elegible for repair or replacement only after inspection
- Approved claims will be repaired or replaced in accordance of manufacturer terms within 1-5 business days

Shipping and Delivery Costs for Warranty Claims:

- **Manufacturing defects:** ELITE LED will refund the shipping / delivery costs or issue a credit for a future order
- **Defect due to misuse, improper installation, electrical surges, or physical damage:** The customer is responsible for all shipping and delivery costs related to the warranty claim.