

# MaxLite® AlphaMax Channel Letter LED Modules



## General Safety Information

### READ AND FOLLOW ALL SAFETY INSTRUCTIONS

**DANGER – RISK OF ELECTRIC SHOCK** – Turn power off before inspection, installation or removal. Properly ground power supply enclosure.

**WARNING – RISK OF FIRE.** Use only UL approved wire for input/output connections. Minimum size 18 AWG (0.82mm<sup>2</sup>). Follow all NEC and local codes.

### Electrical Requirements:

- Acceptable for use in dry, damp and wet locations.
- The grounding and bonding of the LED Driver shall be done in accordance with National Electric Code (NEC) Article 600.
- Follow all National Electrical Codes (NEC) and local codes.
- These products are only suitable for connection to a circuit from a Class 2 power source.
- These products have not been evaluated for use when connected to a power source that does not comply with Class 2 voltage and energy limited supplies.
- For wet locations, these products are not required to be enclosed or protected from weather.

### Tools Required:

- Wire cutter & strippers
- Measuring tape
- Drill
- Standard hardware and supplies in addition to the AlphaMax modules

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

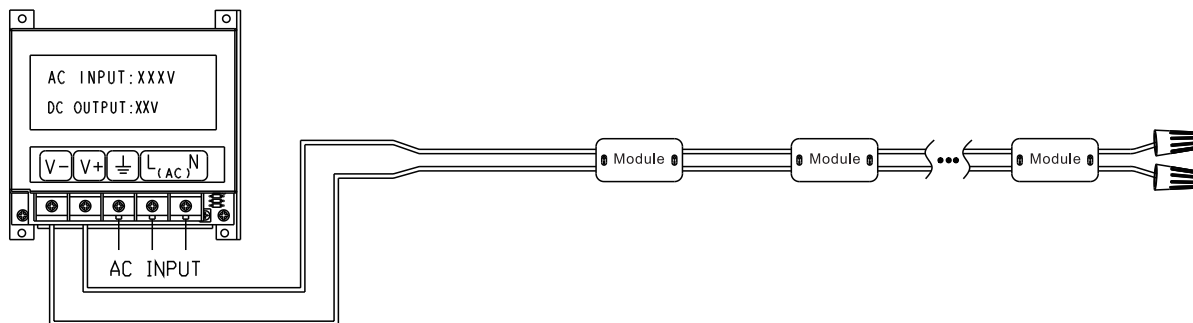
### Module Installation:

1. Remove existing neon or fluorescent tubes and associated transformers and ballasts. Follow all federal and local regulations when disposing of neon tubing, fluorescent tubes, transformers, and ballasts.
2. Any existing holes in the cabinet/channel letter should be patched to avoid water intrusion. Fill in holes 0.5 in. or smaller with appropriate amount of rated caulk or sealant. For holes greater than 0.5 in., use an aluminum or zinc coated steel patch with rivets and sealant.
3. Clean and remove all debris from the inside of the channel letter or cabinet. Use a non-oil based cleaner or a 50:50 mixture of isopropyl alcohol and water to ensure good adhesion of the mounting tape. Allow the alcohol to dry before proceeding.
4. Place modules in sign according to layout. Cut LED strip to the appropriate length for each letter. Cuts can be made between any of the modules.
5. To adhere the product to the cabinet or channel letter, remove tape backing and press (avoid the lens dome surface) LED modules into place.
6. If mechanical fasteners are required or desired, use screws, rivets, or silicone to attach LED modules. Use #6 or #8 sheet metal screws or 1/8" rivets.
7. Drill a hole near the LED strip and grommet the hole for supply wire access.

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## Wiring Diagram



### Electrical Wiring Instructions:

1. Please pay attention to the polarity when connecting the wires of this product with the power supply.
2. Connect LED strips using in-line (IDC) connectors or twist-on wire connectors.
3. Must cap all exposed wires with appropriate wire connectors. Seal the connectors with silicone.
4. Connect the power supply to the LED module.
  - Must use approved MaxLite power supply. Refer to the Maximum Loading chart to determine the number of power supplies required to power the number of LED modules required to illuminate the sign and avoid overload.
  - Connect the power unit to the supply in accordance with the applicable local, state, and country electrical codes, and the instructions found in the power supply installation guide.
  - If required, the disconnect switch shall be installed by qualified personnel, in accordance with applicable local, state, and country electrical codes.

### Troubleshooting:

Symptom	Solution
All LEDs do not work	<ul style="list-style-type: none"> <li>• Check AC input connection and/or check circuit breaker.</li> <li>• Check wire connection(s) of modules and power supply for improper termination(s) or short circuits.</li> <li>• Check the connection(s) for the correct polarity.</li> </ul>
Some LEDs do not work	<ul style="list-style-type: none"> <li>• Check wire connection(s) of the modules and power supply for improper termination(s) or short circuits.</li> <li>• Check the connection(s) for the correct polarity.</li> </ul>
Some LEDs appear dim	<ul style="list-style-type: none"> <li>• Ensure the overall length of the modules does not exceed the maximum load.</li> <li>• Ensure the length of supply wire is equal to or below the recommended remote mounting distance.</li> </ul>
LEDs are blinking	<ul style="list-style-type: none"> <li>• Check for poor wiring connections.</li> <li>• Ensure the overall length of the modules does not exceed the maximum load.</li> <li>• Check to see if the power supply is malfunctioned and replace power supply.</li> </ul>

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### Warranty Information

MaxLite Inc. warrants its products for a minimum period of **FIVE (5)** years from the date of original purchase from MaxLite or its authorized distributor/dealer (the "Warranty Period"), as follows: If a Product fails to operate during the Warranty Period as a result of defects in materials or workmanship, MaxLite will, at its option, repair it, replace it with the same or like Product.

Please refer to Maxlite's website (at <http://maxlite.com/resources/warranties>) for the complete terms and conditions of our warranty.

#### Limitation of Liability

THE FOREGOING WARRANTY IS EXCLUSIVE, AND IS THE SOLE REMEDY FOR ANY AND ALL CLAIMS, WHETHER IN CONTRACT, IN TORT OR OTHERWISE ARISING FROM THE FAILURE OF PRODUCT AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ALL WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHICH WARRANTIES ARE HEREBY EXPRESSLY DISCLAIMED TO THE EXTENT PERMITTED BY LAW AND, IN ANY EVENT, SHALL BE LIMITED TO THE WARRANTY PERIOD SPECIFIED ABOVE. THE LIABILITY OF MAXLITE SHALL BE LIMITED TO THE TERMS OF THE EXPRESS WARRANTY SET FORTH HEREIN. IN NO EVENT WILL MAXLITE BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING, WITHOUT LIMITATION, DAMAGES RESULTING FROM LOSS OF USE, PROFITS, BUSINESS OR GOODWILL, LABOR COSTS, REMOVAL OR INSTALLATION COSTS, DECREASE IN THE LIGHT OUTPUT OF THE LAMP, AND/OR DETERIORATION IN THE LAMP'S PERFORMANCE, WHETHER OR NOT MAXLITE HAS BEEN ADVISED OF THE POSSIBILITY THEREOF. UNDER NO CIRCUMSTANCES SHALL MAXLITE'S ENTIRE LIABILITY FOR A DEFECTIVE PRODUCT EXCEED THE PURCHASE PRICE OF THAT PRODUCT. WARRANTY SERVICES PROVIDED UNDER THESE TERMS AND CONDITIONS DO NOT ENSURE THE UNINTERRUPTED OPERATION OF PRODUCTS; MAXLITE SHALL NOT BE LIABLE FOR DAMAGES CAUSED BY ANY DELAYS INVOLVING WARRANTY SERVICE.

This Limited Warranty gives you specific legal rights and you may also have other rights that may vary from state to state. Because some states or jurisdictions do not allow the exclusion or limitation of liability for consequential or incidental damages, this limitation may not apply to you.