

Tetra® PowerMAX

LED Lighting System

Project Name _____

Date _____ Type _____

Notes _____



Wet or dry— our brightest solution for large channel letters is wet location rated

MAXIMIZED OUTPUT. MINIMIZED EXPENSE.

Created specifically for large channel letters the **Tetra® PowerMAX** LED system delivers incredibly uniform light, installs easily and operates efficiently. The **Tetra® PowerMAX** is now IP66 and UL wet rated which makes it more robust and reliable even under wet weather. Working closely with sign builders and owners, we've refined our design to improve performance while reducing the amount of product required, further reducing installation and material costs.

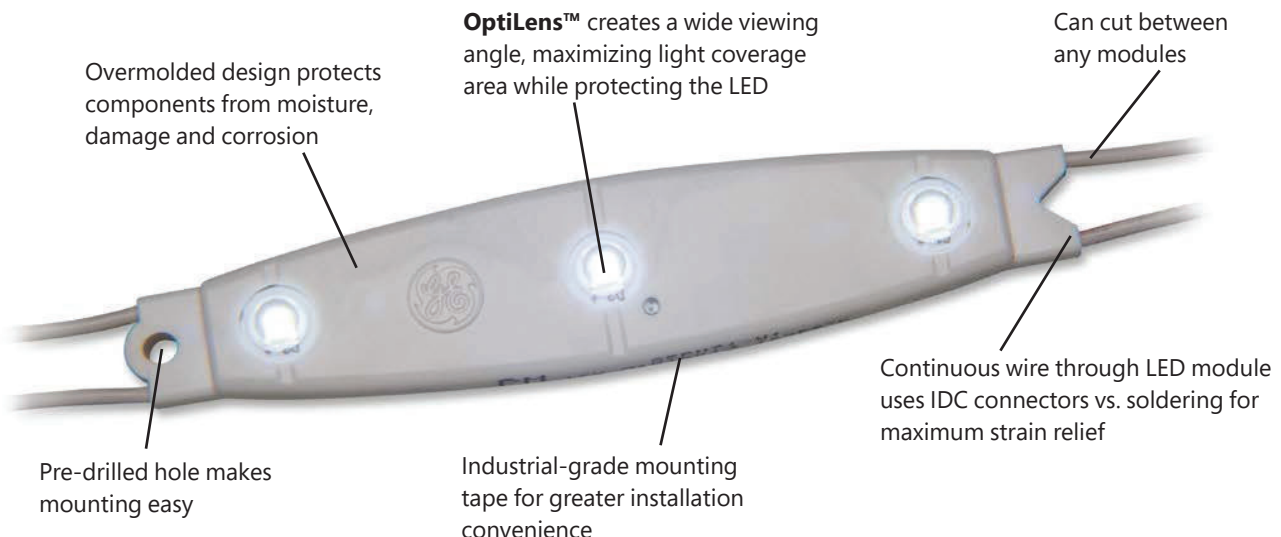
POWERFUL OPTILENS™

Tetra® PowerMAX features **OptiLens™** a patented technology that captures otherwise wasted light and redirects it towards the illuminated surface with impressive uniformity. It optimizes each LED—which enables wider stroke spacing—reducing the amount of material needed per sign while helping protect the LED against moisture, humidity, damage and corrosion.



TETRA® POWERMAX WET LOCATION RATED

Now there's a PowerMAX solution for **wet locations** where saturation with water or other liquids is likely. Integrating all the same performance features of PowerMAX, the PowerMAX wet rated is IP66 and UL rated. It contains an added over molded design that protects against water ingress, dust and damage, and a special module top surface to eliminate water retention —no separate enclosure is required.





CAN CUT PRODUCT REQUIRED ALMOST IN HALF

Many LED systems use about 13 LED modules in 2 rows to fill a capital "T" channel letter that's 3 feet high.

Use one row, not two. Tetra® PowerMAX stretches stroke spacing to an impressive 11 inches in a 5-inch depth channel while maintaining impressive light uniformity on the sign face. It protects your customers' brand image while reducing product costs and saving you installation time.

TOTAL CURRENT RELIABILITY

To ensure every Tetra® PowerMAX installation will operate brilliantly for years, we perform the most extensive, stringent testing in the industry. Rather than relying solely on test data from LED suppliers, we test the LED, water and dust ingress protection, sub-system and complete system at our in-house and independent laboratories around the world. Validation of our designs, components, products and processes include high-temperature, high-humidity and accelerated life testing.

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Spec Table

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Components

| SKU | Description | Package Quantity |
|-----------|---|-------------------------------------|
| GEPM71-W1 | Tetra® PowerMAX MS 7100K | 100 ft. (30.48 m)/box (200 modules) |
| GEPM50-W1 | Tetra® PowerMAX MS 5000K | 100 ft. (30.48 m)/box (200 modules) |
| GEPM41-W1 | Tetra® PowerMAX MS 4100K | 100 ft. (30.48 m)/box (200 modules) |
| GEPM32-W1 | Tetra® PowerMAX MS 3200K | 100 ft. (30.48 m)/box (200 modules) |
| 9409 | 18 AWG Supply Wire (0.82 mm ²) | 500 ft./spool (152.4 m) |
| 191600041 | 22-14 AWG Twist-On Wire Connectors (0.33 - 2.08 mm ²) | 500/PK |
| 192160004 | 18-14 AWG In-line Connectors (IDC) (0.82-2.08 mm ²) | 500/PK |

Technical Specifications

| Color | Wavelength | Typical Brightness (lumens/module) | Typical Brightness (lumens/ft.) | Energy Consumption (Strip/Module) | Energy Consumption (System/Module) | Power Supply Loading | Viewing Angle |
|-----------------|------------------------------|------------------------------------|---------------------------------|-----------------------------------|------------------------------------|----------------------|---------------|
| Tetra® PowerMAX | 7100K, 5000K 4100K, 3200K | 133 120, 109 | 200 180, 164 | 1.32 | 1.5 | 28ft (42 modules) | 150 |

| Specification Item | Specification | | | | | | | | | | | | | | | |
|-------------------------------|---|---|-----|-------------------|----------------|------------------|---|----------------|--|--|-----------------|--|--|-----------------|--|--|
| LEDs/Module | 3 | | | | | | | | | | | | | | | |
| Module/ft. | 1.5 | | | | | | | | | | | | | | | |
| Cutting Resolution | Cut on wire between every module | | | | | | | | | | | | | | | |
| Power Supply | GEPS12-25U-NA Input: 108-305VAC; Output: 12VDC GEPS12-60U-NA Input: 108-305VAC; Output: 12VDC GEPS12-60U-GL Input: 108-305VAC; Output: 12VDC GEPS12W-60 Input: 90-264VAC; Output: 12VDC GEPS12D-60U Input: 90-305VAC; Output: 12VDC GEPS12-180U-NA Input: 108-305VAC; Output: 12VDC | | | | | | | | | | | | | | | |
| Maximum Supply Wire Limits | <table border="1"> <thead> <tr> <th>60W, 80W, 100W, 180W</th> <th>25W</th> <th>Supply Wire Gauge</th> </tr> </thead> <tbody> <tr> <td>20 ft. (6.1 m)</td> <td>120 ft. (36.6 m)</td> <td>18 AWG (0.82 mm²) supply wire—9409</td> </tr> <tr> <td>30 ft. (9.1 m)</td> <td></td> <td>16 AWG (1.31 mm²) supply wire</td> </tr> <tr> <td>50 ft. (15.2 m)</td> <td></td> <td>14 AWG (2.08 mm²) supply wire</td> </tr> <tr> <td>86 ft. (26.2 m)</td> <td></td> <td>12 AWG (3.31 mm²) supply wire</td> </tr> </tbody> </table> <p>Wiring to be installed in accordance with Article 725 of the National Electric Code (NEC).</p> | 60W, 80W, 100W, 180W | 25W | Supply Wire Gauge | 20 ft. (6.1 m) | 120 ft. (36.6 m) | 18 AWG (0.82 mm ²) supply wire—9409 | 30 ft. (9.1 m) | | 16 AWG (1.31 mm ²) supply wire | 50 ft. (15.2 m) | | 14 AWG (2.08 mm ²) supply wire | 86 ft. (26.2 m) | | 12 AWG (3.31 mm ²) supply wire |
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| Operating Environment | -40°C to +60°C | | | | | | | | | | | | | | | |
| Module Dimensions (h x l x w) | 0.37 x 0.88 x 4.33 in. | | | | | | | | | | | | | | | |
| Sign Dimensions | For best results, recommended sign depth is 4 inches (102mm) or greater | | | | | | | | | | | | | | | |
| Warranty | Current offers a limited system warranty of up to five (5) years | | | | | | | | | | | | | | | |
| LED Module Certifications | UL Recognized #E219167, UL Classified #E229508 wet location rated, CE & RoHS IP66 | | | | | | | | | | | | | | | |