

GE  
Lighting

# Tetra<sup>®</sup> PowerMAX

LED Lighting System

Our **brightest** solution for  
**large** channel letters



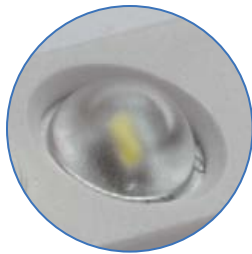
imagination at work

# Tetra® PowerMAX

## Maximized Output. Minimized Expense.

Created specifically for large channel letters the **Tetra® PowerMAX** LED system is **3%** brighter than our previous product, delivers incredibly uniform light, installs easily and operates efficiently. 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.

**3% Brighter!**



### 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.

## 12% Greater loading is a competitive advantage

Our system can now operate 28 feet of product per 60W power supply (up from 25 feet in our previous design) for even greater material and installation labor savings.

Overmolded design protects components from moisture, damage and corrosion

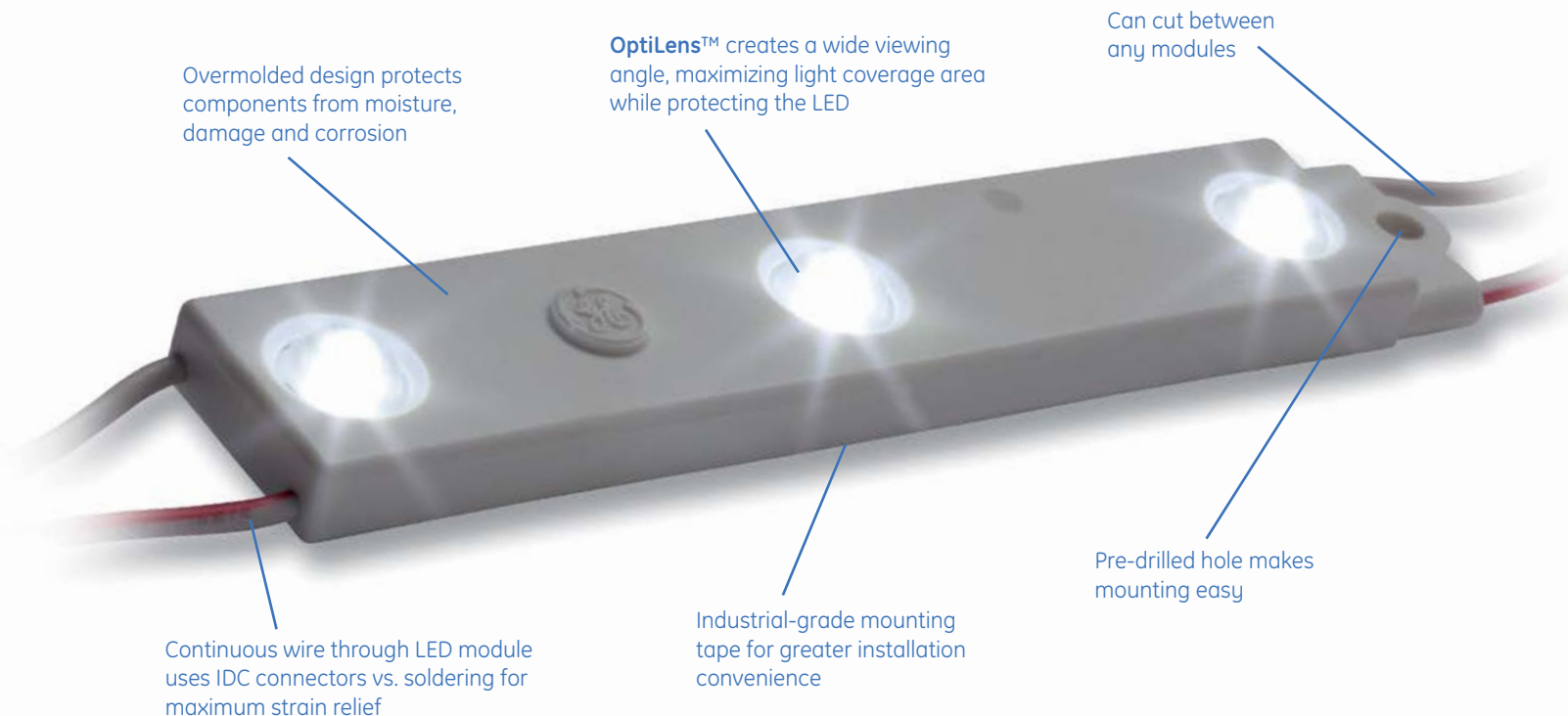
OptiLens™ creates a wide viewing angle, maximizing light coverage area while protecting the LED

Can cut between any modules

Continuous wire through LED module uses IDC connectors vs. soldering for maximum strain relief

Industrial-grade mounting tape for greater installation convenience

Pre-drilled hole makes mounting easy





a product of  
**ecomagination™**

## Can cut product required almost in half

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

Improved **Tetra PowerMAX**, requires just 7 LED modules to fill the exact same letter (giving up some brightness) while providing outstanding uniformity. That's **46% fewer modules**.

**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 GE Reliability

To ensure every **Tetra PowerMAX** installation will operate brilliantly for years, we perform the most extensive, stringent testing in the industry. Rather than rely solely on test data from LED suppliers, we test the LED, 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.

## Components

SKU	Description	Package Quantity
GEPM71-2	Tetra PowerMAX 7100K	100 ft (30.48m)/ box (150 modules)
GEPM50-2	Tetra PowerMAX 5000K	100 ft (30.48m)/ box (150 modules)
GEPM41-2	Tetra PowerMAX 4100K	100 ft (30.48m)/ box (150 modules)
GEPM32-2	Tetra PowerMAX 3200K	100 ft (30.48m)/ box (150 modules)
9409	18 AWG Supply Wire (0.82 mm <sup>2</sup> )	500 ft /spool (152.4 m)
191600041	22-14 AWG Twist-On Wire Connectors (0.33 - 2.08 mm <sup>2</sup> )	500/ PK
192160004	18-14 AWG In-line Connectors (IDC) (0.82-2.08 mm <sup>2</sup> )	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	133	200	1.32	1.5	28ft (42 modules)	150
	4100K, 3200K	120, 109	180, 164				

Specification Item	Specification															
LEDs/ Module	3															
Module/ft.	2.5															
Cutting Resolution	Cut on wire between every module															
Power Supply	GEPS12-20 Input: 90-264VAC; 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															
Maximum Supply Wire Limits	<table border="1"> <thead> <tr> <th>60W, 80W, 100W, 180W</th> <th>20W</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>18AWG/0.82mm<sup>2</sup> supply wire - 9409</td> </tr> <tr> <td>25 ft. (7.6 m)</td> <td></td> <td>16AWG/1.31mm<sup>2</sup> supply wire</td> </tr> <tr> <td>35 ft. (10.6 m)</td> <td></td> <td>14AWG/2.08mm<sup>2</sup> supply wire</td> </tr> <tr> <td>40 ft. (12.1 m)</td> <td></td> <td>12AWG/3.31mm<sup>2</sup> 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	20W	Supply Wire Gauge	20 ft. (6.1 m)	120 ft. (36.6 m)	18AWG/0.82mm <sup>2</sup> supply wire - 9409	25 ft. (7.6 m)		16AWG/1.31mm <sup>2</sup> supply wire	35 ft. (10.6 m)		14AWG/2.08mm <sup>2</sup> supply wire	40 ft. (12.1 m)		12AWG/3.31mm <sup>2</sup> supply wire
60W, 80W, 100W, 180W	20W	Supply Wire Gauge														
20 ft. (6.1 m)	120 ft. (36.6 m)	18AWG/0.82mm <sup>2</sup> supply wire - 9409														
25 ft. (7.6 m)		16AWG/1.31mm <sup>2</sup> supply wire														
35 ft. (10.6 m)		14AWG/2.08mm <sup>2</sup> supply wire														
40 ft. (12.1 m)		12AWG/3.31mm <sup>2</sup> supply wire														
Operating Environment	-40 °C to + 60 °C															
Module Dimensions (h x l x w)	0.31 x 3.94 x 0.71 in. (8 x 100 x 18 mm)															
Sign Dimensions	For best results, recommended sign depth is 4 inches (102mm) or greater															
Warranty	GE offers a limited system warranty of up to five (5) years															
System Certifications	UL Recognized #E219167, UL Classified #E229508, CSA Approved #216319, CE, C-tick, RoHS IP66 rated: separate enclosure required, damp location rated															



GE Lighting • 1-888-MY-GE-LED (1-888-69-43-533) • [www.gelighting.com](http://www.gelighting.com)

GE Lighting is a subsidiary of the General Electric Company. Tetra is a trademark of GE Lighting. The GE brand and logo are trademarks of the General Electric Company. © 2014 GE Lighting. Information provided is subject to change without notice. All values are design or typical values when measured under laboratory conditions.