

GE
Lumination

Tetra[®] PowerMAX

LED Lighting System

Maximized performance in large channel letters



imagination at work

Tetra® PowerMAX

Powerful white light, maximum uniformity

Created specifically for large channel letters, Tetra® PowerMAX LED lighting system combines bright white light output and excellent uniformity across sign faces. This new LED system features simple 2-wire installation and operates on just 12-volts. Sign OEMs and their customers benefit from exceptional ease of installation, long life, energy efficiency and the total reliability GE can deliver to the largest channel letter projects.

The Powerful Difference of OptiLens™

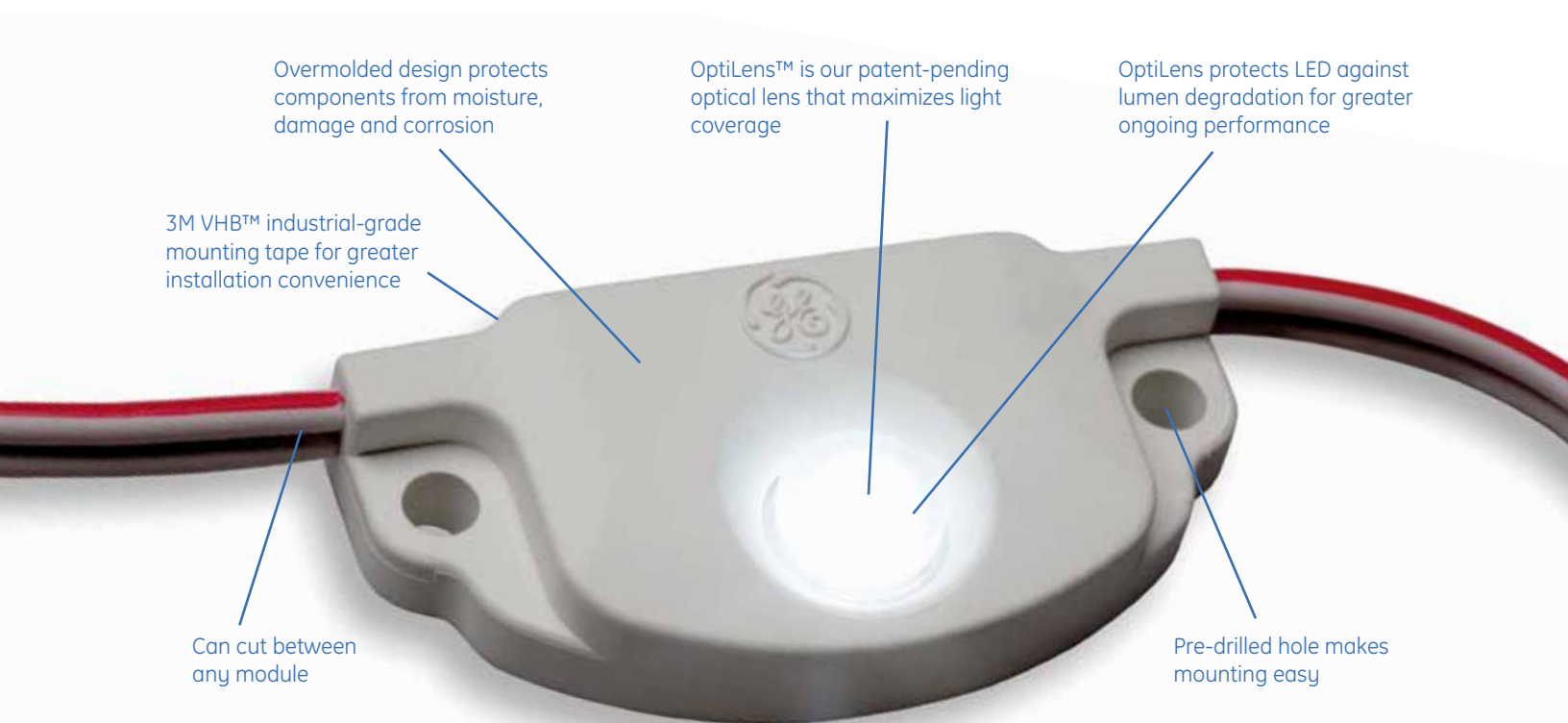
Tetra PowerMAX LED lighting system features OptiLens™, a remarkable lens technology that maximizes LED performance. This patent-pending optical lens helps distribute bright white light towards the sign face in a broad, 125-degree pattern. The result: outstanding brand appearance with bright, uniform light across the entire sign face.

Maximized Performance

OptiLens allows Tetra PowerMAX LED lighting system to produce a wide uniform surface area coverage across the sign face. This enables sign builders to use fewer strokes of LEDs per sign. Additional savings in material costs are possible because this product works beautifully at very shallow depths; imagine the material savings per sign with channel letters as shallow as 4 inches.

Maximized Ease of Installation

Our low-voltage Tetra PowerMAX LED lighting system is incredibly easy to install, utilizing layout guidelines similar to other 2-wire Tetra LED systems for channel letter applications. Time-saving features include pre-drilled mounting holes, 3M VHB™ industrial-grade mounting tape and off-the-shelf components like 18 AWG (0.82 mm²) wire and standard wire connectors.





Simplified Power Supply Solution

Our newly streamlined suite of Tetra Power Supplies makes it even easier to specify, install and maintain inventory for your sign projects. All Tetra channel letter LED systems are operated by the same 12-Volt power supply, with only one output lead for faster installation. Complex wiring, custom splice connectors, dip switches and multiple output banks are now a thing of the past.

Maximized Reliability

To ensure every Tetra PowerMAX LED lighting system will perform brilliantly for years, we not only test for reliability, we also follow the GE Six Sigma methodology and use the 10-step Design For Reliability process. This allows us to design in a specified level of reliability that takes real world conditions into account. Our rigorous testing helps us validate the robustness of our products. Rather than rely solely on test data from LED suppliers, we test the LED, sub-system and complete Tetra 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.

As one of the largest LED systems companies in the world, our expansive installation base includes more than 20 million linear feet of Tetra LED lighting systems sold. It all adds up to the greatest possible assurance backed by a 4 year limited warranty and the reputation of one the world's most respected brands.

Maximized System Life

Tetra PowerMAX LED lighting system delivers bright clean white light with a rated life of 50,000 hours. That's perfect energy-efficient performance that provides low operational and maintenance costs while enhancing the brand image of your customers for years to come.

Maximized Global Reach

No matter how large or internationally diverse your installation program, we have the comprehensive resources to meet your needs. GE is uniquely positioned to provide the infrastructure, resources and support required for consistent signage branding programs that extend around the world.

For maximized results in large channel letters, sign installers and their customers appreciate the global performance and convenience that Tetra® PowerMAX LED lighting system can deliver.



Components

SKU	Description	Package Quantity
GEWHPMS2-65K	Tetra® PowerMAX, 6500K, 2 LEDs/ft (~7LEDs/m)	100 ft (30.48 m)/box (200 modules)
GEWWPMS2-30K	Tetra® PowerMAX, 3000K, 2 LEDs/ft (~7LEDs/m)	100 ft (30.48 m)/box (200 modules)
GEPS12-20	Input: 90-264VAC; Output: 12VDC/20W	10 power supplies
GEPS12-60	Input: 90-264VAC; Output: 12VDC/60W	10 power supplies
GEPS12-60U	Input: 108-305VAC; Output: 12VDC/60W	10 power supplies
GEPS12W-60	Input: 90-264VAC; Output: 12VDC/60W	10 power supplies
9409	18 AWG Supply Wire (0.82 mm ²)	500 ft. (152.40 m)/spool
191600041	22-14 AWG Twist-on Wire Connector (0.33-2.08 mm ²)	500/bag
192160004	18-14 AWG In-Line Splice Connector (0.82-2.08 mm ²)	500/bag

Technical Specifications

Specification Item	Tetra PowerMAX
Modules/ft	2 modules/ft (~7 modules/m)
Typical Brightness (lumens/module)	White: 73 lm/module Warm White: 50 lm/module
Color Temperature	White: 6500K Warm White: 3000K
Viewing Angle	125°
Cutting Resolution	Cut between any module
LED Strip Operating Environment	-40 °C to + 60°C
Maximum Loading per Power Supply	GEPS12-20: 20 Modules/10 ft. (3.05 m) GEPS12-60: 50 Modules/25 ft. (7.62 m) GEPS12-60U: 50 Modules/25 ft. (7.62 m) GEPS12W-60U: 50 Modules/25 ft. (7.62 m)
Maximum Supply Wire Limits	See Tetra Power Supply Installation Instruction for specific remote mounting limits
Module Dimensions	0.411 x 0.906 x 1.831 inches (10 x 23 x 47 mm)
Sign Dimensions	For best results, recommended sign depth is 4 inches (102mm) or greater.
Energy Consumption	Strip: 0.96 W/module, System: 1.16 W/module
Limited Warranty	4 years on LED strip, 5 years on power supply
System Certifications	UL Recognized #E219167, UL Classified #E229508, CSA Approved #216319, CE, C-tick, RoHS, IP66 rated: separate enclosure required, damp location rated



1975 Noble Road • Cleveland, Ohio 44112-6300 • USA
 P: 216.266.4800 • F: 216.266.2158 • www.lumination.com • info@lumination.com

For customer service & technical support, contact:
1-888-MY-GE-LED (1.888.694.3533)

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