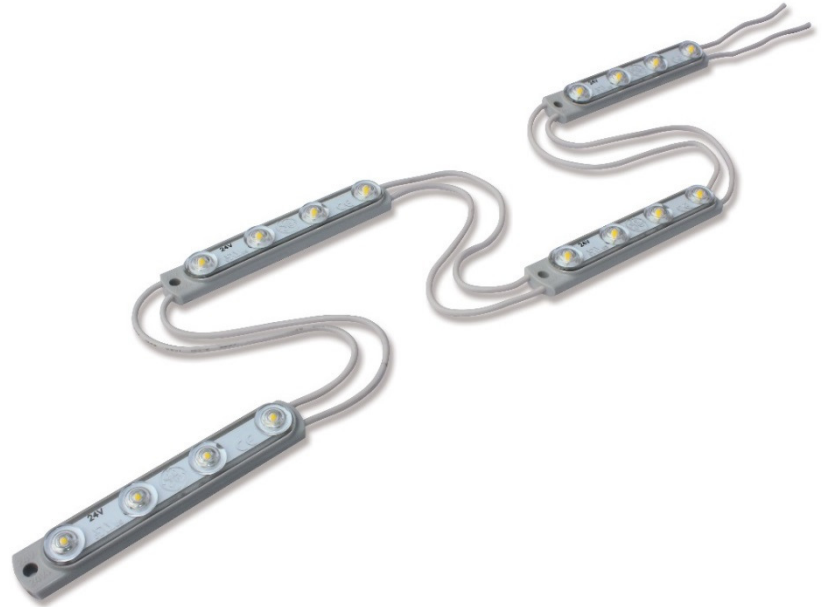# Tetra® PowerMAX HO

LED Lighting System

With all new OptiLens™ X and groundbreaking energy efficiency

Tetra® PowerMAX HO —the remarkable **24V** LED system designed for channel letters delivers incredibly uniform light, installs easily and operates efficiently. The **Tetra® PowerMAX HO** is IP66 and UL wet rated, which makes it more robust and reliable, even under wet weather.

Powerful all new OptiLens™ X

Tetra® PowerMAX HO features all new **OptiLens™ X** a *new* patented technology that allows for an incredible **170°** viewing angle. The all *new* **Tetra® PowerMAX HO** is your best option to significantly reduce energy and maintenance costs.

Power Supply Loading

The *new* **24V Tetra® PowerMAX HO** load up to 64 feet (19.5 m) in the tied configuration or 64 modules of product per GEPS24-100U-NA power supply.

Improved Stroke Spacing and Installation

The *new* **24V Tetra® PowerMAX HO** stroke spacing is quite impressive requiring less product, thanks to the *new* **OptiLens™ X** wide beam angle and increased light output. PowerMAX HO comes with additional wire length between modules that can be released by cutting a tie wire, eliminating the need to make connections between rows when used in cabinet sign applications or multiple stroke channel letters.

Tetra® PowerMAX Features

- Wide 170° beam angle
- Efficacy: 150 lm/W
- 24 Volt DC, Class 2 (UL), Class III (IEC)
- UL Wet Rated & IP66- no separate enclosure is required
- 5 years limited Warranty

	Can Depth	Coverage
Medium	6-7" (152-178mm) 7-8" (178-203mm)	17" (432mm) 19" (483mm)
Large	≥ 8" (203mm)	21" (533mm)

Total GE Reliability

To ensure every Tetra® PowerMAX HO installation will operate brilliantly for years, we perform the most extensive, stringent testing in the industry. 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.
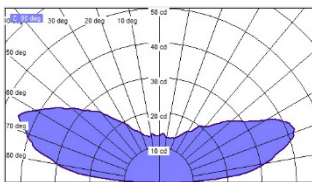
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Components

SKU	Description	Details	Color	Order unit	Pkg Quantity	Additional Information, Stretched Wire
93067977	GEPMH2471-W1CS1	Tetra® PowerMAX HO 24V 7100K	White	Box	5 Strips/Box	35 modules/strip (70 ft/strip)
93067978	GEPMH2450-W1CS1	Tetra® PowerMAX HO 24V 5000K	Warm White	Box	5 Strips/Box	35 modules/strip (70 ft/strip)
93067979	GEPMH2441-W1CS1	Tetra® PowerMAX HO 24V 4100K	Warm White	Box	5 Strips/Box	35 modules/strip (70 ft/strip)
93067980	GEPMH2432-W1CS1	Tetra® PowerMAX HO 24V 3200K	Warm White	Box	5 Strips/Box	35 modules/strip (70 ft/strip)

Technical Specifications

Description	Wavelength/CCT	Typical Brightness (Lumens/module)	Typical Brightness, Tied Wire Lumen/ft (Lumen/m)	Energy Consumption (Strip/Module)	Energy Consumption (System/Module)	Power Supply Loading, Tied Wire	Viewing Angle
GEPMH2471-W1CS1	7100K	180	180 (590)	1.2 W/module	1.41 W/module	64 ft (19.5 m) /100WPS	170
GEPMH2450-W1CS1	5000K	180	180 (590)	1.2 W/module	1.41 W/module	64 ft (19.5 m) /100WPS	170
GEPMH2441-W1CS1	4100K	180	180 (590)	1.2 W/module	1.41 W/module	64 ft (19.5 m) /100WPS	170
GEPMH2432-W1CS1	3200K	160	160 (525)	1.2 W/module	1.41 W/module	64 ft (19.5 m) /100WPS	170

Specification Item	Specification (Tied Wire)			Specification (Stretched Wire)
LEDs/Module	4			4
LEDs/ft (LEDs/m)	4 (13.1)			2 (6.6)
Modules/ ft. (Modules/m)	1.0 (3.3)			0.5 (1.6)
Cutting Resolution	Cut on wire between every module			
Power Supply	GEPS24-25-NA Input: 100-305VAC; Output: 24VDC GEPS24D-80U Input: 90-305VAC; Output: 24VDC GEPS24-100U Input: 108-305VAC; Output: 24VDC GEPS24-180U Input: 90-305VAC; Output: 24VDC GEPS24-300U Input: 108-305VAC; Output: 24VDC			
Maximum Supply Wire Limits		18 AWG/0.82 mm2 Supply Wire	16 AWG/1.31 mm2 Supply Wire	14 AWG/2.08 mm2 Supply Wire	12 AWG/3.31 mm2 Supply Wire

	18 AWG/0.82 mm2 Supply Wire	16 AWG/1.31 mm2 Supply Wire	14 AWG/2.08 mm2 Supply Wire	12 AWG/3.31 mm2 Supply Wire
25W Power Supply	120 ft./36.6 m	-	-	-
80W Power Supply	20 ft./6.1 m	25 ft./7.6 m	35 ft./10.6 m	40 ft./12.1 m
100W Power Supply	20 ft./6.1 m	25 ft./7.6 m	35 ft./10.6 m	40 ft./12.1 m
180W Power Supply	20 ft./6.1 m	25 ft./7.6 m	35 ft./10.6 m	40 ft./12.1 m
300W Power Supply	20 ft./6.1 m	25 ft./7.6 m	35 ft./10.6 m	40 ft./12.1 m

Specification Item	Specification
Operating Environment	-40 °C to +60 °C
Module Dimensions (h x l x w)	0.42 in x 3.26 in x 0.57 in (10.76 mm x 82.9 mm x 14.4 mm)
Warranty	GE offers a limited system warranty of up to five (5) years
System Certifications	UL Recognized (C-US) #E219167, UL Classified (C-US) #E229508, CE, ROHS IP66 rated: for dry, damp or wet location.

Viewing Angle

Mechanical Outline Dimensions in (inches). Metric equivalent mm.

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