LED signage lighting systems
Visibly better
Tetra® PowerMAX HO

GE current
a Daintree company

With powerful OptiLens™ X
and groundbreaking energy efficiency

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

Powerful OptiLens™ X

Tetra® **PowerMAX** features OptiLens™ X, our patented technology that allows for an incredible 170° viewing angle. This exclusive technology redirects otherwise wasted light to the sign face, making sure your signs shine.

Power Supply Loading

The new 24V **Tetra**® **PowerMAX** loading improves 128% from the previous 12V generation. Now load up to 64 feet (19.5 m) or 96 modules of product per GEPS24-100U-GLX power supply.

Improved stroke spacing

The new 24V **Tetra**® **PowerMAX** stroke spacing has improved on average by 35%. PowerMAX HO comes out of the box with tied wire between modules, which can be stretched for greater flexibility.

Tetra® PowerMAX HO Features

- **Wide 170° beam angle**
- **Efficacy: 150 lm/W**
- **24 Volt DC, Class 2 (UL), Class III (IEC)**
- **UL Wet Rated & IP66**
- **5-year limited warranty**

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

Total 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.

Mechanical Outline

Dimensions in (inches). Metric equivalent mm.
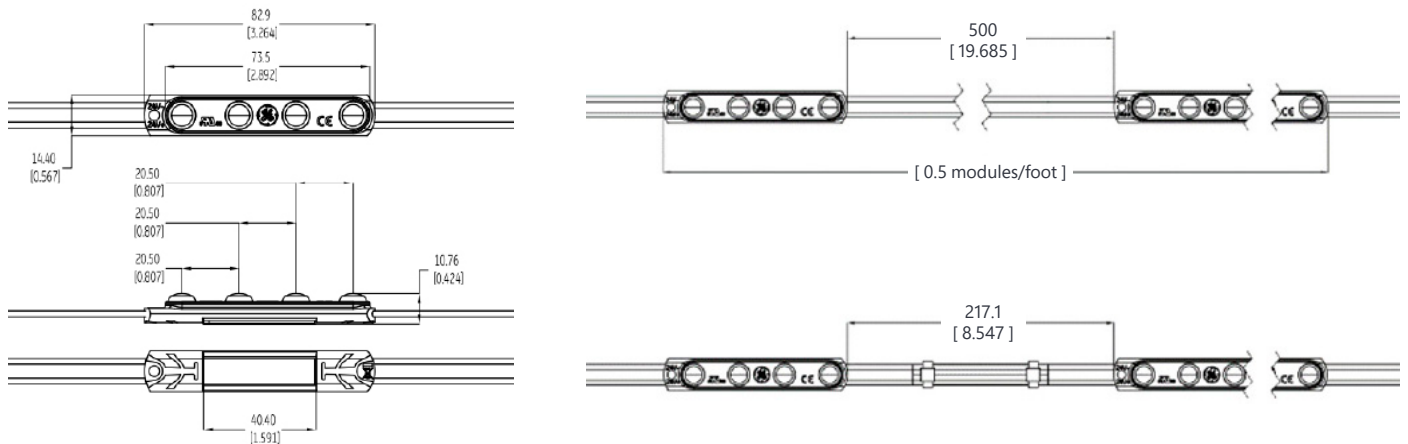
Viewing Angle

Tetra® PowerMAX HO

Components

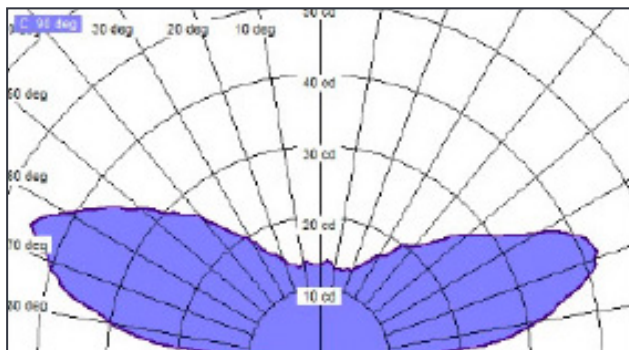| SKU	Description	Details	Color	Order Unit	Pkg. Quantity	Additional Information
93067977	GEPMH2471-W1CS1	Tetra® PowerMAX HO 24V 7100K	White	Box	5 Strips/Box	35 mods (35 ft tied, 70 ft stretched) per strip
93118731	GEPMH2465-W1CS1	Tetra® PowerMAX HO 24V 6500K	Warm White	Box	5 Strips/Box	35 mods (35 ft tied, 70 ft stretched) per strip
93118732	GEPMH2457-W1CS1	Tetra® PowerMAX HO 24V 5700K	Warm White	Box	5 Strips/Box	35 mods (35 ft tied, 70 ft stretched) per strip
93067978	GEPMH2450-W1CS1	Tetra® PowerMAX HO 24V 5000K	Warm White	Box	5 Strips/Box	35 mods (35 ft tied, 70 ft stretched) per strip
93067979	GEPMH2441-W1CS1	Tetra® PowerMAX HO 24V 4100K	Warm White	Box	5 Strips/Box	35 mods (35 ft tied, 70 ft stretched) per strip
93067980	GEPMH2432-W1CS1	Tetra® PowerMAX HO 24V 3200K	Warm White	Box	5 Strips/Box	35 mods (35 ft tied, 70 ft stretched) per 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°
GEPMH2465-W1CS1	6500K	180	180 (590)	1.2 W/module	1.41 W/module	64 ft (19.5 m) /100WPS	170°
GEPMH2457-W1CS1	5700K	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°

Technical Specifications

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
	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	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.

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