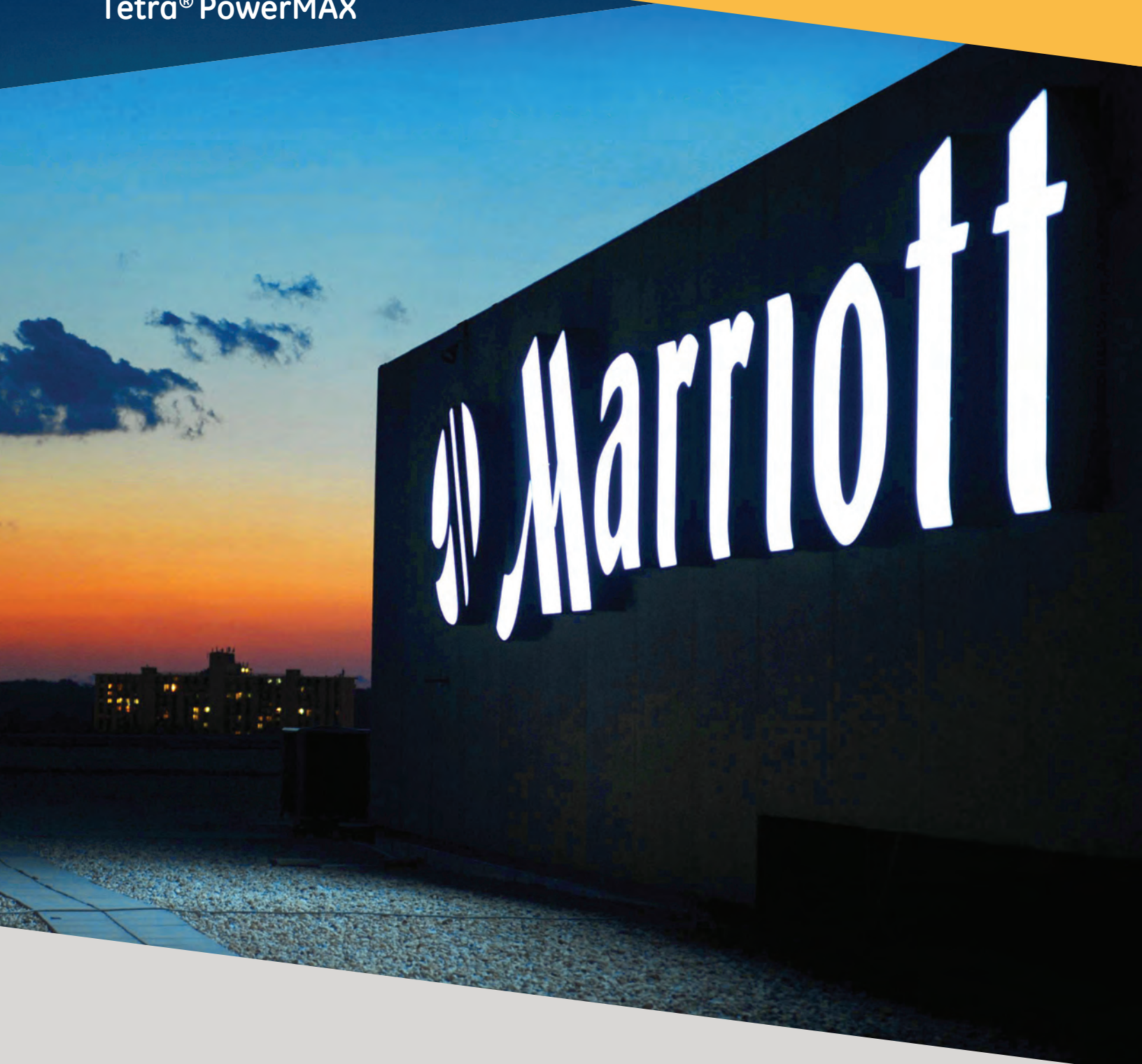LED signage lighting systems
Channel Letters

Tetra® PowerMAX

current
powered by GE

With all-new OptiLens™ X and groundbreaking energy efficiency

Tetra® PowerMAX —the 24V remarkable LED system designed for channel letters as shallow as 4 inches in depth, as well as cabinet signs, delivers incredibly uniform light, installs easily and operates efficiently. **Tetra® PowerMAX** is now IP66 and UL wet rated which makes it more robust and reliable than ever, even under wet weather.

Powerful all-new OptiLens™ X

Tetra® PowerMAX features all-new 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.

Best-in-class 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-NA power supply.

Improved Stroke Spacing

The new 24V **Tetra® PowerMAX** stroke spacing has improved on average by 35%, requiring far less product, thanks to the new OptiLens™ X wide beam angle.

Tetra® PowerMAX Features

- Wide 170° beam angle
- Improved luminous intensity
- Efficacy: 158 lm/W
- 24 Volt DC, Class 2 (UL), Class III (IEC)
- UL Wet Rated & IP66
- 5-year limited warranty

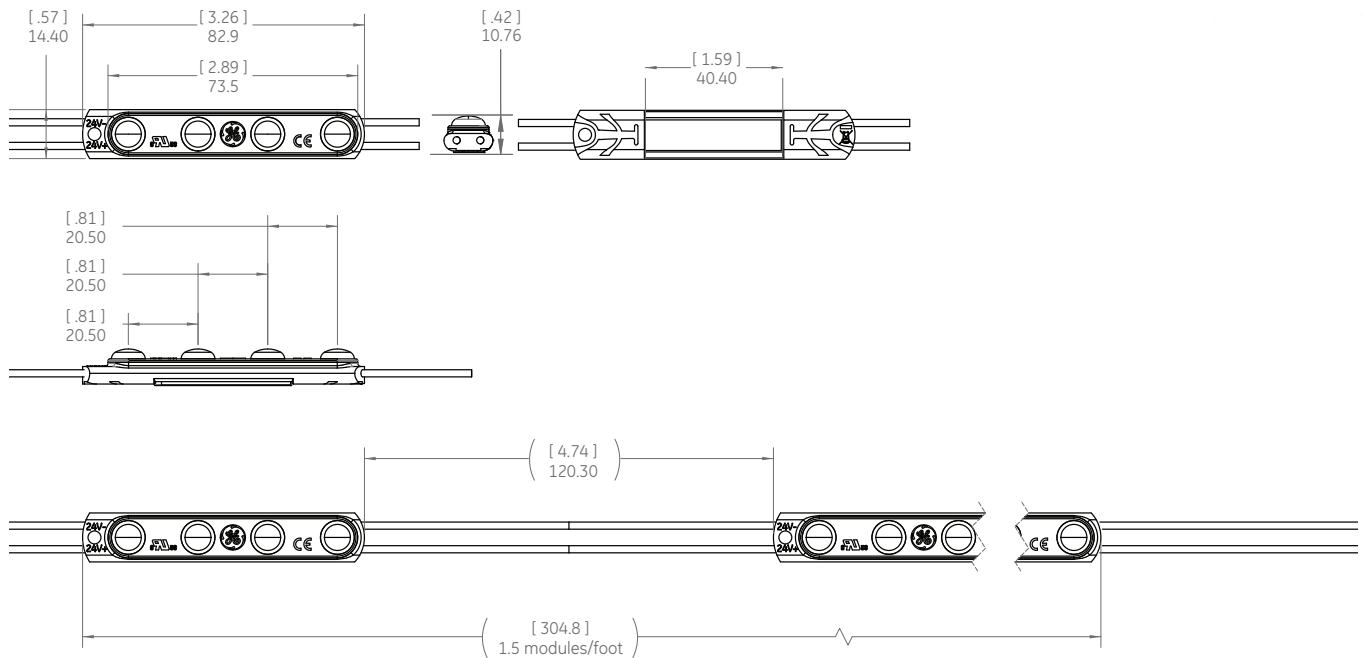| Tetra® PowerMAX		
	Can Depth	Coverage
Medium	5" (127mm)	14" (356mm)
Large	6" (152mm)	17" (432mm)
	7" (178mm)	19" (483mm)
	≥ 8" (203mm)	21" (533mm)

Total GE Reliability

To ensure every **Tetra® PowerMAX** 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.
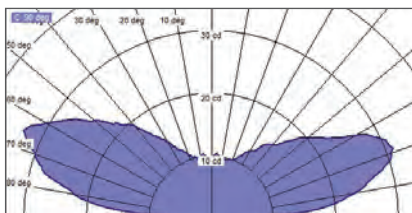
Mechanical Outline

Dimensions in (inches). Metric equivalent mm.

Viewing Angle

Tetra® PowerMAX

Components

SKU	Description	Details	Color	Pkg. Quantity	Additional Information Stretched Wire
93051997	GEPM2471-W1	Tetra® PowerMAX 24V 7100K	White	5 Strips/Box	30 modules per strip
93118729	GEPM2465-W1	Tetra® PowerMAX 24V 6500K	Warm White	5 Strips/Box	30 modules per strip
93051998	GEPM2450-W1	Tetra® PowerMAX 24V 5000K	Warm White	5 Strips/Box	30 modules per strip
93051999	GEPM2441-W1	Tetra® PowerMAX 24V 4100K	Warm White	5 Strips/Box	30 modules per strip
93052000	GEPM2432-W1	Tetra® PowerMAX 24V 3200K	Warm White	5 Strips/Box	30 modules per strip

Technical Specifications

Description	Wavelength/CCT	Typical Brightness (Lumens/module)	Typical Brightness Lumen/ft (Lumen/m)	Energy Consumption (Strip/Module)	Energy Consumption (System/Module)	Power Supply Loading	Viewing Angle
GEPM2471-W1	7100K	133	200 (656)	0.84w/module	0.988w/module	64 ft (19.5 m) /100WPS	170
GEPM2465-W1	6500K	133	200 (656)	0.84w/module	0.988w/module	64 ft (19.5 m) /100WPS	170
GEPM2450-W1	5000K	133	200 (656)	0.84w/module	0.988w/module	64 ft (19.5 m) /100WPS	170
GEPM2441-W1	4100K	133	200 (656)	0.84w/module	0.988w/module	64 ft (19.5 m) /100WPS	170
GEPM2432-W1	3200K	120	180 (590)	0.84w/module	0.988w/module	64 ft (19.5 m) /100WPS	170

Technical Specifications

Specification Item	Specification			
LEDs/Module	4			
LEDs/ft (LEDs/m)	6 (19.7)			
Modules/ ft. (Modules/m)	1.5 (4.9)			
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
Operating Environment	-40 °C to +60 °C			
Module Dimensions (h x l x w)	10.76 x 82.9 x 14.4			
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.			

current powered by GE