

GE
Lumination

Tetra[®] PowerGrid LED Lighting System

The backlighting solution that brings
big savings within easy reach



imagination at work

Tetra® PowerGrid

Raises sign performance to new heights

The revolutionary Tetra **PowerGrid** LED Lighting System from GE Lumination makes fluorescent tubes in cabinet and box signs a thing of the past. Developed and tested using GE Six Sigma standards, PowerGrid significantly reduces installation, maintenance and energy costs in backlighting applications. With Tetra PowerGrid, sign builders, installers and owners get a tighter grip on costs which can bring greater profitability within reach.

Reduces Installation Costs

Pre-wired modular system installs incredibly fast

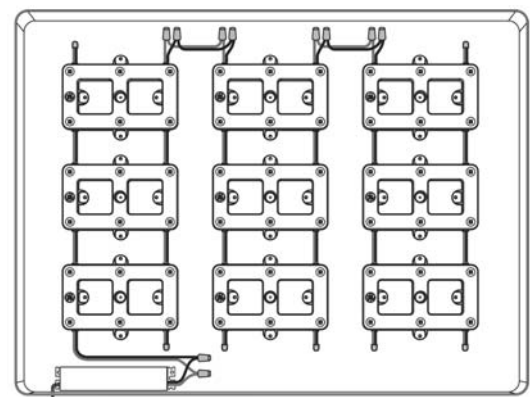
Patent-pending PowerGrid design features easy-to-handle interlinking modules that lift right out of the carton in a continuous sequence for hassle-free installation. Wiring is quick and simple because unlike a fluorescent system, PowerGrid does not require the construction of raceways or sockets to hold glass tubes. Total time saved versus fluorescent is significant, helping OEMs build more signs per day and increase profit potential.

Save on material costs

Advanced engineering enables PowerGrid to fit in sign profiles as shallow as 5-inches (127 mm) deep, reducing the amount of materials needed for the aluminum extrusion. PowerGrid can be used in signs of all sizes, eliminating the need to stock and handle a wide variety of glass tubes, sockets and miscellaneous parts to support traditional fluorescent signs. The robust, over-molded design eliminates shipping and handling breakage associated with glass tubes and reduces the amount of packing materials needed to safely ship the sign.

Less complex & easier to install

This low-voltage 24VDC system reduces complex electrical wiring, which may help save on labor costs. The sturdy, contoured modules have rounded corners and smooth edges for easier handling than standard fluorescent tubes—particularly helpful when installing at a significant height. For ordering and installation ease, a single power supply runs one box of PowerGrid (21-module), which covers 14 ft.² (1.3 m²) of sign area.



Typical sign layout



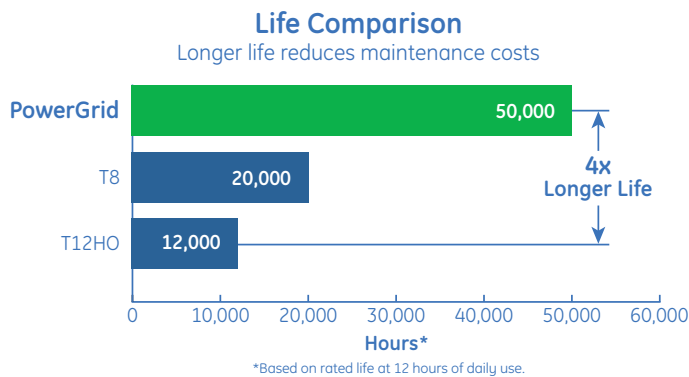
Reduces Maintenance Costs

Lasts 4 times longer than standard fluorescent

The Tetra PowerGrid system is rated to perform for 50,000 hours, that's over 11 years of consistent, brilliant light.* PowerGrid beats fluorescent lamp life by over 300% and its unmatched reliability is backed by a 4-year limited warranty.

Save on relamp labor expense

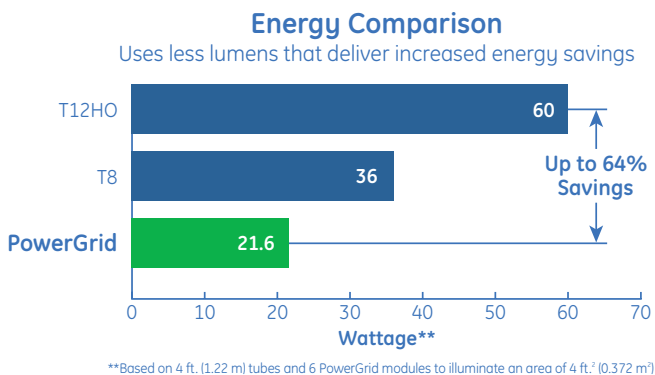
With PowerGrid's impressive life and ongoing performance, relamping schedules of less than 3 years for standard fluorescent can be extended to more than 11 years.* Sign owners will realize tremendous labor savings by significantly reducing the number of service visits required for replacing fluorescent tubes.



Reduces Energy Costs

Energy-efficient design

Innovative PowerGrid uses less lumens than T12HO fluorescent to provide effective, consistent light across the entire sign face, while delivering energy savings up to 64%.



Benefits the Environment

Designed with environmental responsibility in mind

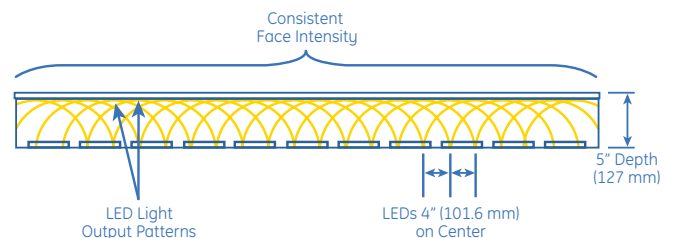
PowerGrid, a product of GE ecomagination, complies with RoHS standards and is UL listed. This system contains no lead, mercury or glass, making handling and disposal less of a concern, while using less energy than standard fluorescent systems.

Protects Brand Image

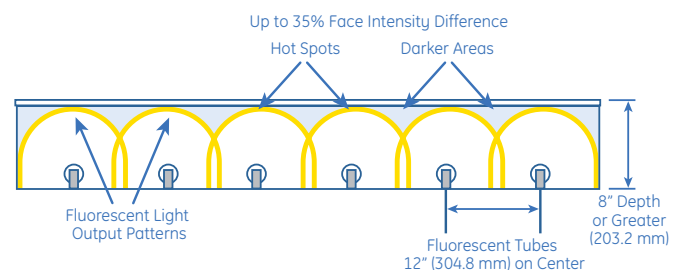
Brilliant, uniform light

With PowerGrid, sign owner reputation is protected from unsightly dim or burned-out signs that threaten positive brand perception. Even in cold weather, GE's robust design keeps brilliant, uniform light shining across the entire sign face. PowerGrid enables a shallow 5-inch (127 mm) can depth, compared to 8-inches (203.2 mm) for fluorescent, to allow for a sleeker, low-profile sign.

Tetra PowerGrid



T12HO Fluorescent



Components

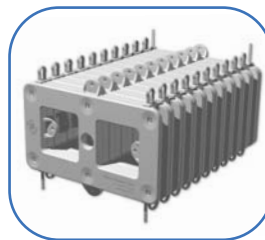
SKU	Description	Package	Additional Information
GEWHPGP6-65K	Tetra® PowerGrid White LED Modules	21 modules/box	6500K, 6 LEDs/module
GEWWPGP6-35K	Tetra® PowerGrid Warm White LED Modules	21 modules/box	3500K, 6 LEDs/module
GEPS24-20	Power Supply (24 volt/20 watt)	10/box	Load: 5 modules (3.33 ft/1.02 m)
GEPS24-80	Power Supply (24 volt/80 watt)	10/box	Load: 21 modules (14 ft/4.27 m)
GEPS24-100U	Power Supply (24 volt/100 watt)	10/box	Load: 24 modules (16 ft/4.88 m)
GEPGEC1	18 AWG Wire End Caps (0.82 mm ²)	100/bag	White
9409	18 AWG Supply Wire (0.82 mm ²)	500 ft/spool (152.4 m)	
191600041	22-14 AWG Twist-On Wire Connectors (0.33 - 2.08 mm ²)	500/bag	
192160004	18-14 AWG In-line/IDC Connectors (0.82 - 2.08 mm ²)	500/bag	
GEWHPGP6WD-65K	Tetra® PowerGrid Sample Module	1 sample	
GEWHPGP6-120KIT	Tetra® PowerGrid Demo Case, 120V	1 demo case	
GEWHPGP6-240KIT	Tetra® PowerGrid Demo Case, 240V	1 demo case	

Technical Specifications

Typical Brightness (lumens/module)	White: 126 lm/module, Warm White: 102 lm/module
Color Temperature	White: 6500K, Warm White 3500K
Typical System Power Usage	6.3 watts/ft (20.6 watts/m), 4.2 watts/module
Typical Output Voltage	24 VDC
Input Voltage	GEPS24-20: 90-264 VAC and 50/60 Hz GEPS24-80: 108-264 VAC and 50/60 Hz GEPS24-100U: 108-305 VAC and 50/60 Hz
Input Current	1.1 amps
Operating Environment	Tetra® PowerGrid System: -40°C to 60°C GEPS24-20 Power Supply: -40°C to 60°C GEPS24-80 Power Supply: -40°C to 60°C GEPS24-100U Power Supply: -40°C to 55°C
Certifications	UL Recognized #E219167, UL Classified #E229508, CSA Approved #216319, CE, C-tick, RoHS and Power Supply IP66 damp location rated



a product of
ecomagination™



6180 Halle Drive • Valley View, Ohio 44125-4635 • USA
P: 216.606.6555 • F: 216.606.6599 • www.led.com • info@led.com

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

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