

GE
Lighting

LED Power Supply

Lightech™ LED Driver
(GELD50MV700PVNA & GELD50MV700PDGL)



imagination at work

Lightech™ LED Driver

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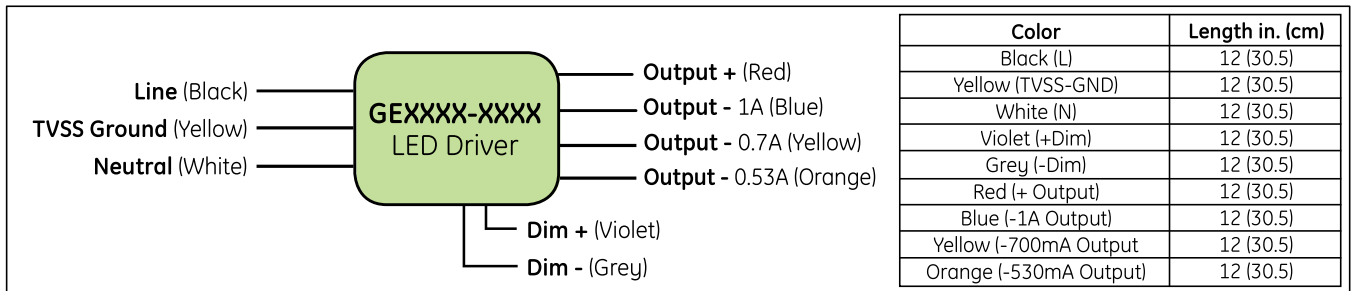
Description: (GELD50MV700PVGL) 50W programmable to 700mA, 0-10V Dimmable Class 1 driver
 (GELD50MV700PDGL) 50W programmable to 700mA, DALI Dimmable Class 1 driver

Input Voltage: 120-277V

Input Frequency: 50-60Hz



GE Product Code	Max Output Power (W)	Input Current	Input Voltage	Output Current (A)	Output Voltage (V)	Efficiency Full Load	Max Input Current (A)	Min W for <20% @277V	Min W for PF>90% @277V	Max Inrush Current (A/m5)	Surge Protection (kV/kA)	Isolated Dimming			Weight (lbs/kg)	Water Rating
												Protocol	Current Source	Dimming Range (%)		
83453	50	.5-22	120/277	0.160 - 0.700	60 - 150	90%	0.51 @ 120V	17W	40W%	53 @ 277V	3 / 0.25	0-10V	0.5mA	100% - 10%	1.1 / 0.52	Damp
13901	50	.5-22	120/277	0.160 - 0.700	60 - 150	90%	0.51 @ 120V	17W	40W%	53 @ 277V	3 / 0.25	DALI	0.5mA	100% - 10%	1.1 / 0.52	Damp



Product Features

Performance

- The unit is classified as Class 1 as stipulated in UL8750.
- Dimming circuit is classified as Class 2 as stipulated in UL1310.
- Minimum ambient operating temperature: -30°C.
- Maximum allowable casing temperature: 80°C.
- For reliability and failure rate information, contact GE Lighting Solutions

Input Inrush Current		
Input Voltage (V _{rms})	Peak Current Pulse (A _{pk})	Pulse Duration (50% of Peak) (ms)
120	23	0.25ms
230	46	0.25ms
277	53	0.25ms

- The unit is UL certified for operation in dry/damp locations (Outdoor Type 1).
- The unit is tolerant of extended open circuit and short circuit conditions.
- The unit is compliant to FCC Title 47 Part 15 Class A and CISPR 15
- The unit is resistant to surges as per IEEE/ANSI C62.41.2-2002 Location A (3kV/0.25kA) and EN61000-4-5:2006 (1kV/0.5kA)

Input Ground Leakage Current	
Input Voltage (V _{rms})	Leakage Current (mA)
120	0.14
230	0.24
277	0.34

Physical

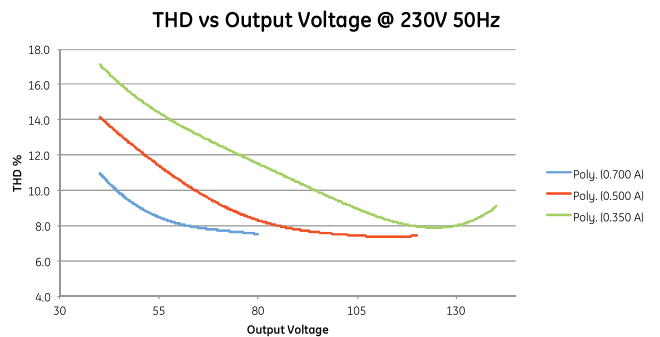
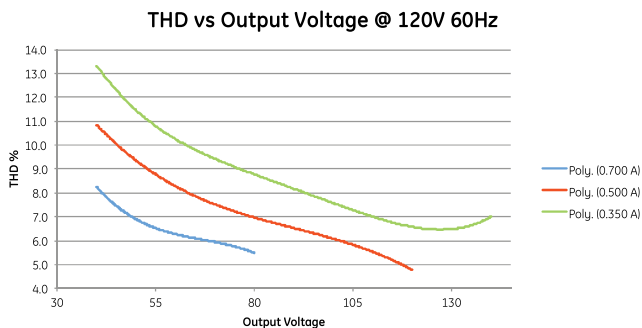
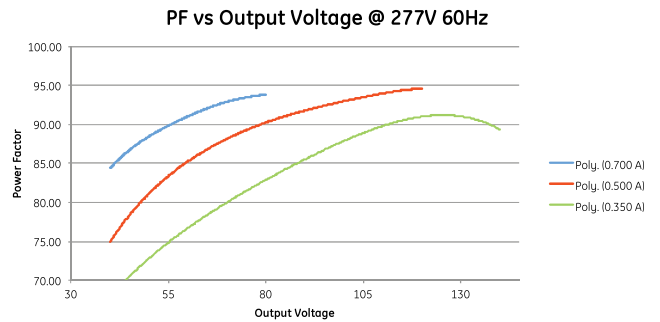
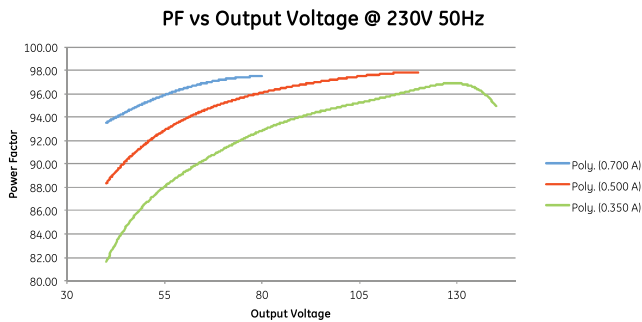
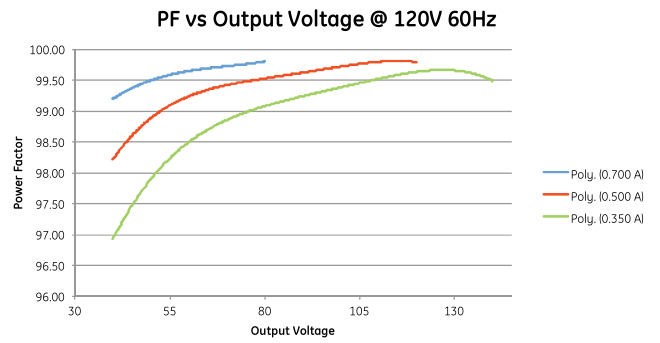
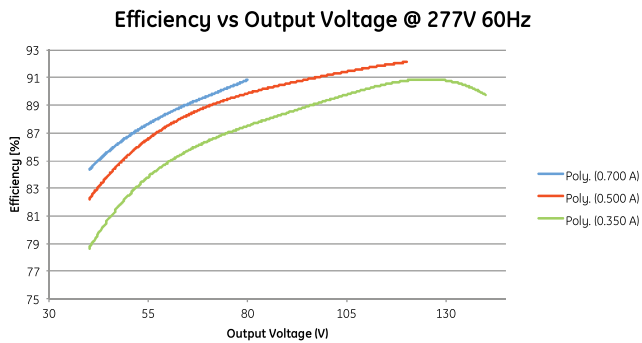
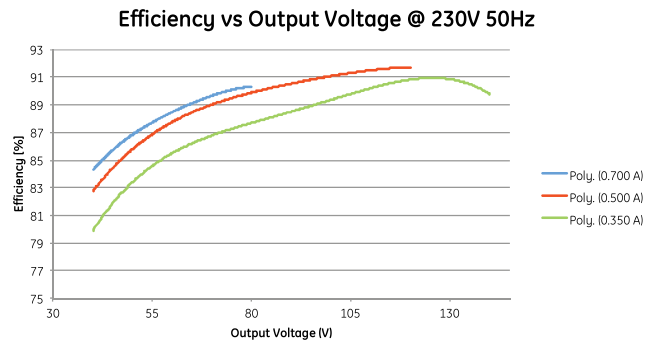
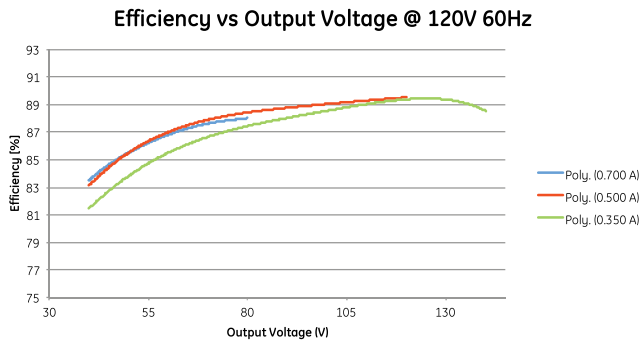
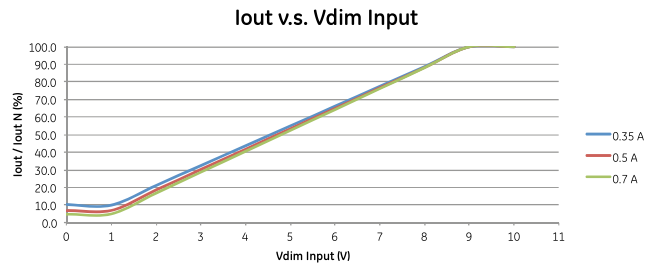
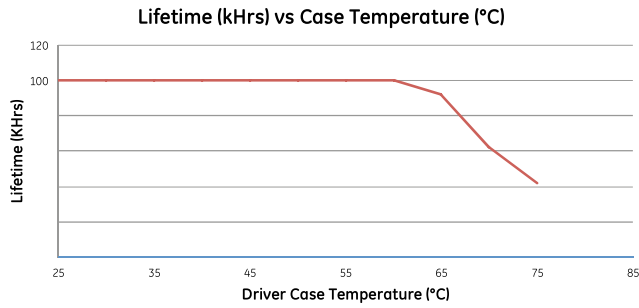
- Unit must be installed within an electrical enclosure.
- Enclosure wiring must be rated to 600V & 105°C or higher.

UL Conditions of Acceptability – E340135

- The unit has been examined to comply with Class 1 Output Criteria
- The unit is only to be used in dry or damp locations
- The metal casing must be connected to EARTH.

Technical Information

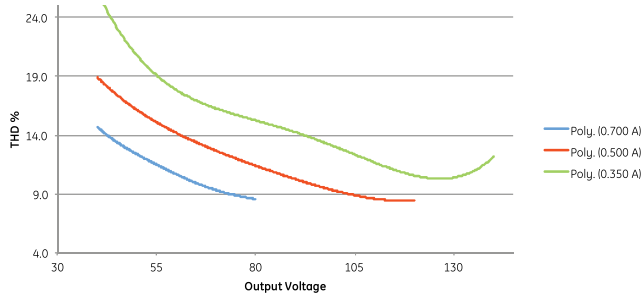
(GELD50MV700PVNA & GELD50MV700PDGL)



Technical Information

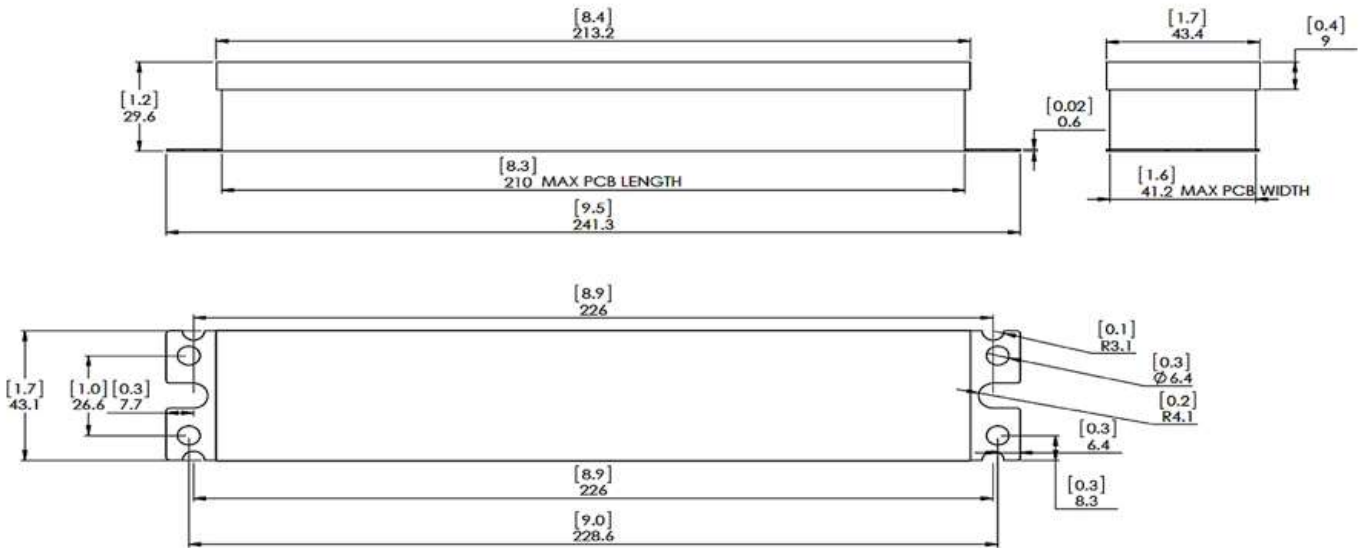
(GELD50MV700PVNA & GELD50MV700PDGL)

THD vs Output Voltage @ 277V 60Hz



Product Dimensions

(GELD50MV700PVNA & GELD50MV700PDGL)



Product Label

<p>Lightech™ LED Driver</p> <p>GELD50MV700PVGL 120-277 Volts, 50/60 Hz</p> <p>4 3168 6 7356 3</p>	<p>INPUT Voltage 120-277 VAC 50/60 Hz per UL 220-240 VAC 50/60 Hz per CE Current 0.51 Amps per UL, 0.52 Amps per CE PF >= 0.9</p> <p>OUTPUT 155VDC Max 700mA Max Output 50 Watts</p> <p>Class 1 Power Supply</p> <p>Brown (L) Blue (N)</p> <p>Red (L) Black (N) White (G)</p> <p>Tc=85°C</p> <p>WARNING - MISWIRING! Risk of shock/arc flash. Disconnect power before servicing or installing product. Respect the color coding. Always follow the instructions provided in the literature for correct installation of the product.</p>	<p>120-277V</p> <p>0-10V Dimming LED Driver Min Start Temp -30°C Inherent Thermal Protection Protection Thermique Inhérente UL1012 Class 1 FCC Part 15 Non-Consumer and EN55015 High Power Factor Sound Rated A Product is compliant with material restriction requirements of RoHS. Install and ground per National Electric Code</p> <p>For Dry or Damp Locations</p>	<p>Assembled in China. Designed & Distributed by General Electric Co. GE Lighting Nela Park, Cleveland, Ohio 44122</p> <p>For assistance call: 1-888-GEBALLast</p>
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www.gelighting.com

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