Lightech™ LED Driver

Indoor Class 2 LED Driver

D050MP501/0V2SM

Description: 50W 0.5A~1.0A 0-10V Dimmable/Programmable Class 2 PSU

Input Voltage: 120-277Vac +/-10% (UL), 230Vac +/-10% (CE)

Input Frequency: 50/60Hz

ROHS Compliant: Yes

Output Power (W)	Output Current (A)	Output Voltage (V)	Efficiency at full load (277Vac input)	Max Input Current (A)	Input Power (w)	THD @ 21W Po (277Vac)	PF @ 21W Po (277Vac)	Inrush Current (A/mS)	Surge Protection (kV/kA)	Weight (lbs/g)
50	0.5 -1.0 ± 5%	21-51	>90%	0.51A (UL), 0.28A (CE) @ 480V	58W	<20%	>0.9	See Page below	3kV/0.25kA	1.33lb / 602g

Dimming Function			
Dimming Method	Isolation	Dimming Range (%)	Current source
0-10V	Class 2	100% - 10%	0.5mA

Wiring Diagram: See label below

Product Features

Physical

- Unit must be installed in compliance with the applicable requirements of the end-product standard for enclosure, mounting, spacing, casualty and segregation.
- Enclosure wiring must be rated to 600V & 105°C or higher.

Performance

- The unit is classified as Class 2 as stipulated in UL1310.
- 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 LED Indoor Electronics Team.
- The unit is UL certified for operation in dry/damp locations.

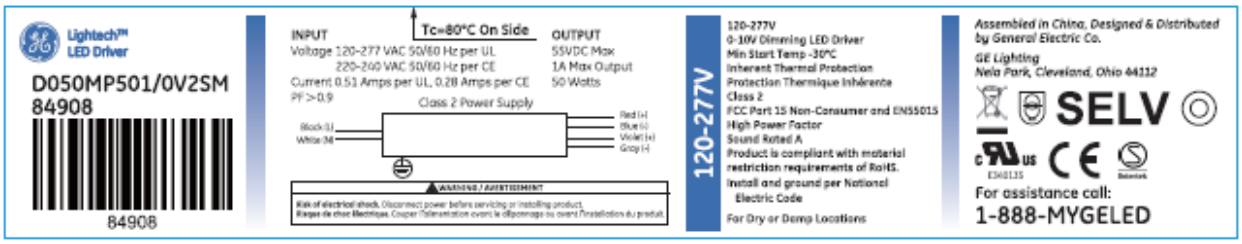
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- The unit is tolerant of extended open circuit and short circuit conditions.
- The unit is compliant to FCC Title 47 Part 15 Class A and EN55015.
- The unit is resistant to surges as per ANSI C62.41 – 2002 and IEC 61000-4-5.

UL Conditions of Acceptability – E340135

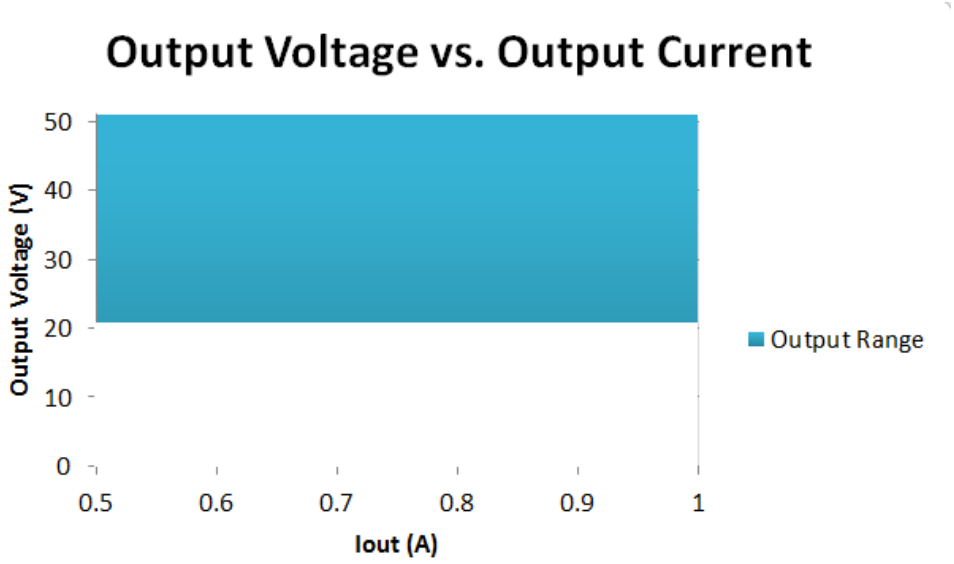
- The unit has been examined to comply with Class 2 Output Criteria
- The unit is only to be used in dry or damp locations
- The metal casing must be connected to **EARTH.**
- The "LED" and "DIM" output circuits must remain isolated form one another to be considered class 2 circuits in the end use.

Product Label



Technical Information

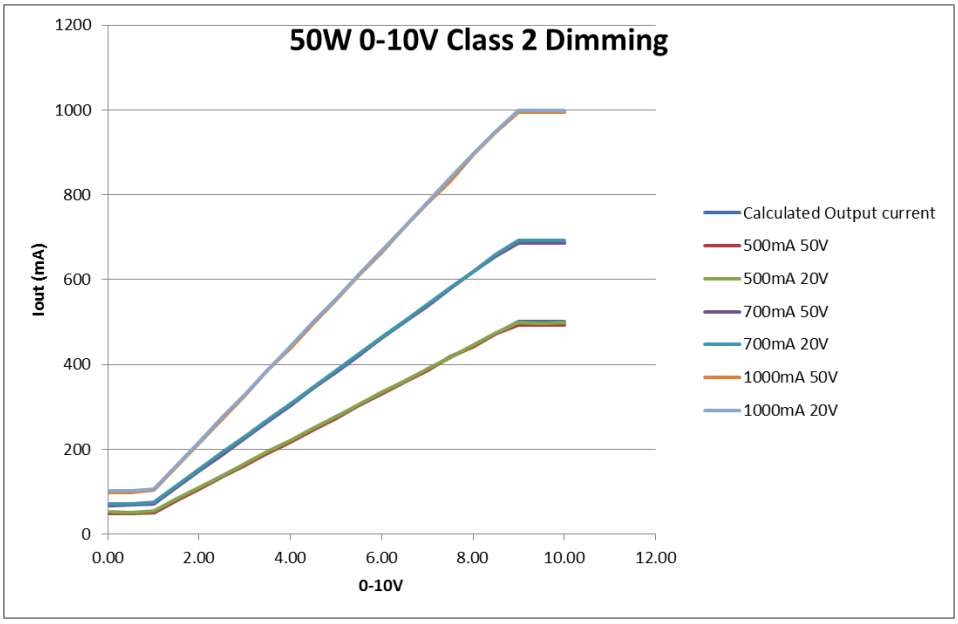
Output Voltage/Current Range (21V – 51V, 0.5A – 1A)



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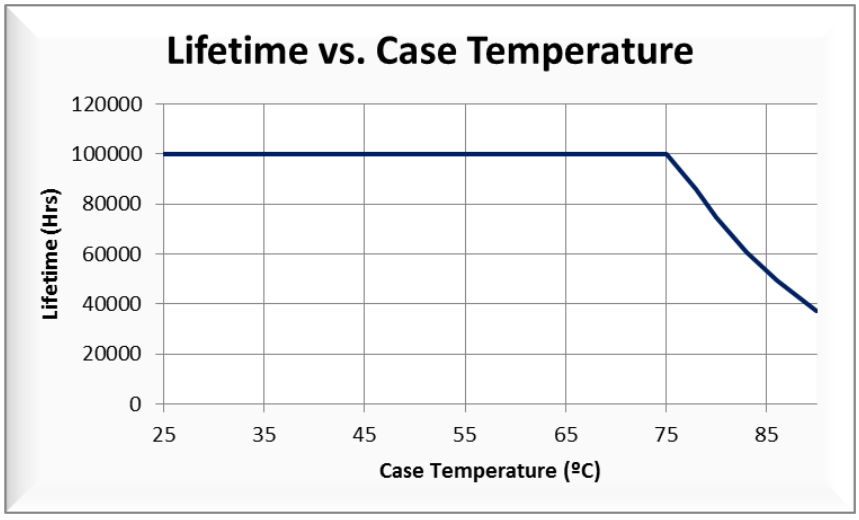
0-10V Dimming Curve

Driver sources 0.5mA dimming currrent. Dimming Level range is from 10% to 100%.



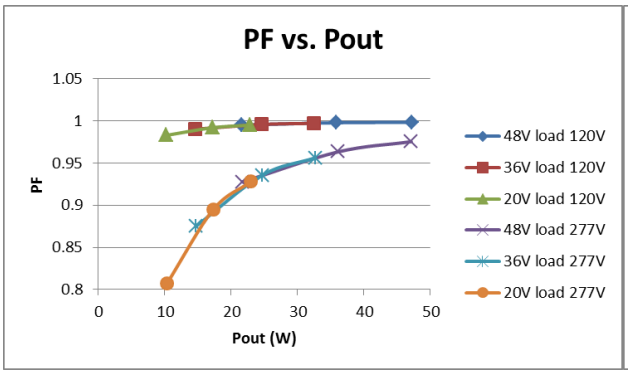
Technical Information

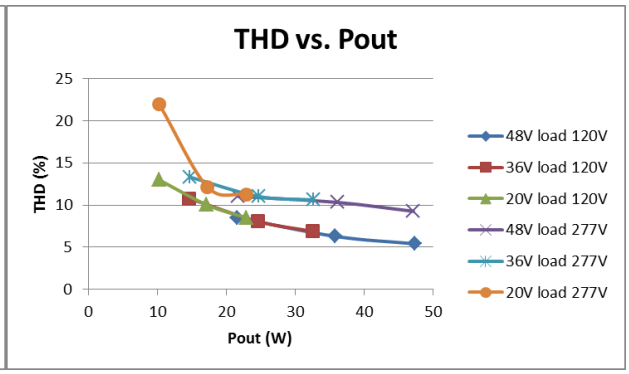
Lifetime Expectation



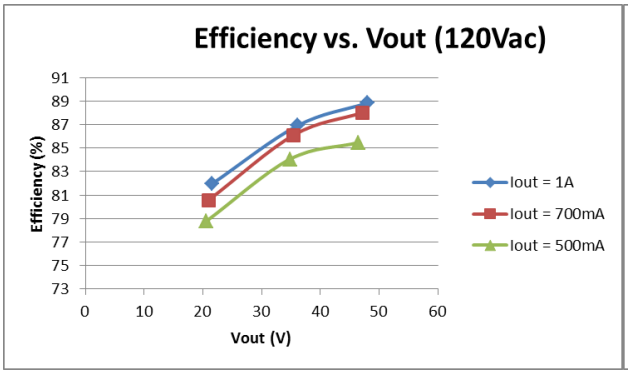
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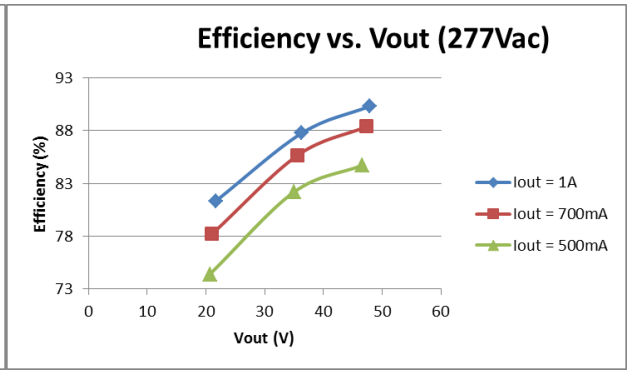
Power Factor & Total Harmonics Distortion

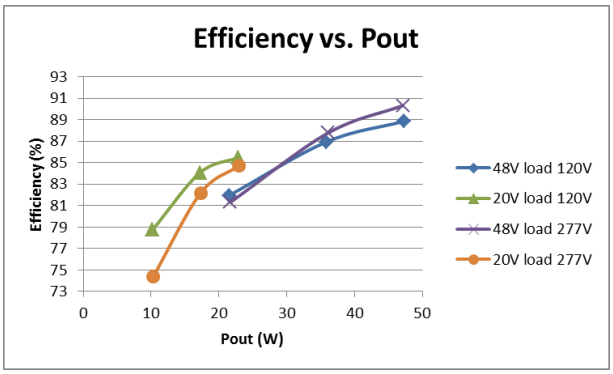




Power Efficiency







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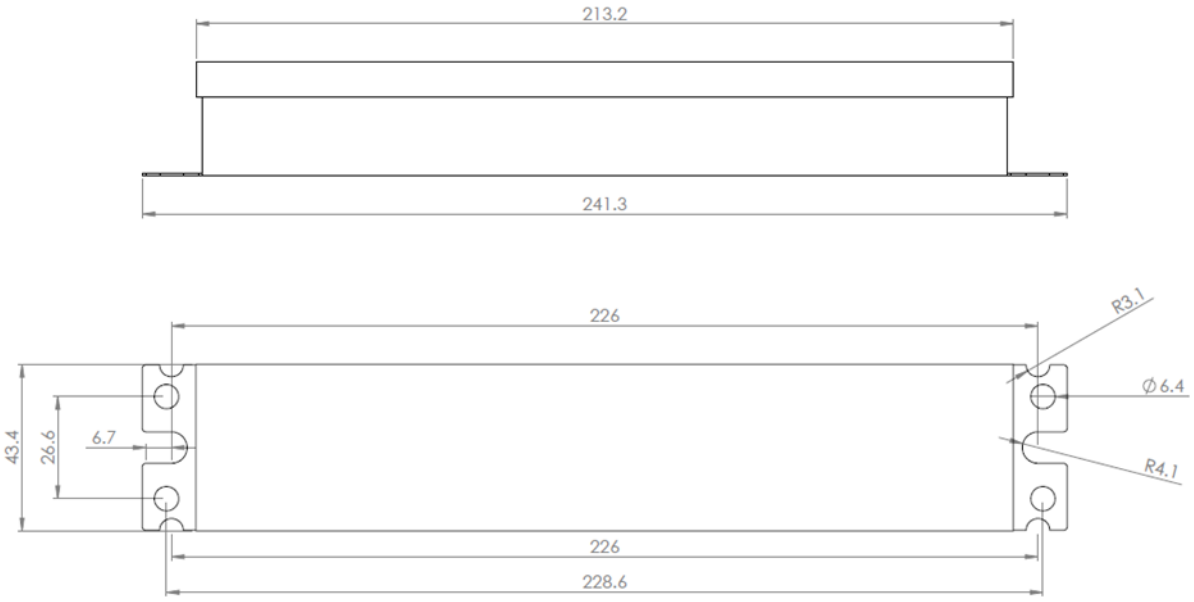
Input Inrush Current

Input Inrush Current		
Input Voltage [V_{rms}]	Peak Current Pulse [A_{pk}]	Pulse Duration (50% of Peak) [us]
120V	22.4	107.4
277V	49.6	131.4

Leakage Current

Input Ground Leakage Current		
Input Voltage [V_{rms}]	Leakage Current (mA)	
	S1 ON	S1 OFF
120V	0.27	0.27
240V	0.56	0.56
277V	0.6	0.6

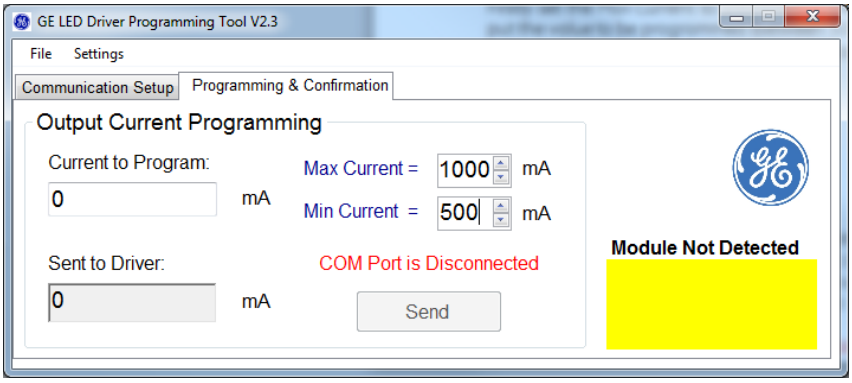
Product Dimensions



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Current Programming Interface

Firstly set the Max Current to 1000mA and the Min Current to 500mA in the input box, then put the value to be programmed (between 500mA to 1000mA) into the input box for Current to Program, finally click the Send button to complete the programming of driver.



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