# 50W TCO Outdoor Dimming Driver

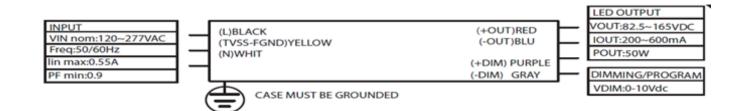
### GED50MV1P600

### SAP: 95050425

Description: 0~10V/current Programmable Input Voltage: 120V/277Vac±10% Input Frequency: 50Hz/60Hz Surge Protection: 10KV/5KA ROHS Compliant: Yes



Input Voltage(V)		PF. min	THD	Output power range(W)		Output voltage(V)		Programmable Current Range (A) ±5%		Max ouput current ripple	Dimming	Warranty Life
Nom	Frequency			min	max		Max		Max			
120- 277Va	50Hz/60Hz	≥0.9 @full load	≤20%	25.0	50.0	82.5	165.0	0.2	0.6	8% and 120HZ @25°C((Pk- avg)/avg)	10%-100%	10years @Tc 65C



# **Product Features**

### Physical

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

#### Performance

- Driver output is classified as Class 1 as stipulated in NFPA70 article 725 (National Electric Code).
- Dimming circuit is classified as Class 2 as stipulated in UL8750.
- Minimum ambient operating temperature: -40°C.
- Maximum allowable casing temperature: 85°C.
- The unit is UL recognized 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.
- The unit is resistant to surges as per IEEE/ANSI C136.2-2018 Enhanced (10kV/5kA).
- LED load is not protected if load is plugged in while driver is powered.



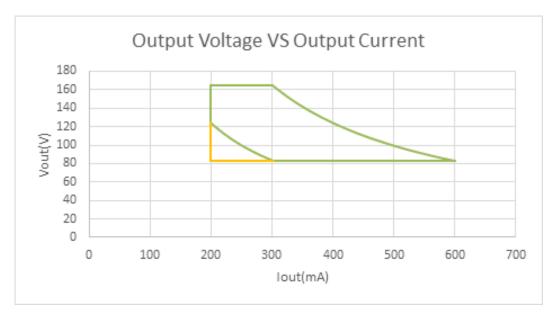
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### UL Conditions of Acceptability – E340135

- 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.**
- TVSS-GND (Yellow wire) shall be connected to fixture ground after hi-pot test using closest tab screw. THIS IS NOT A SAFETY GROUND!

### **Technical Information**

### GED50MV1P600



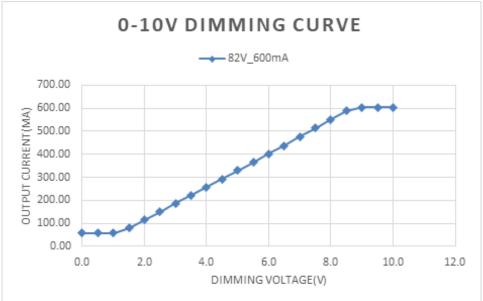
Note: the operation window is tested at room temperature = 25°C **Green Area:** Operation Window (PF>0.9, THD<20%) **Yellow Area:** Driver operates normally but input PF specification may not be met.

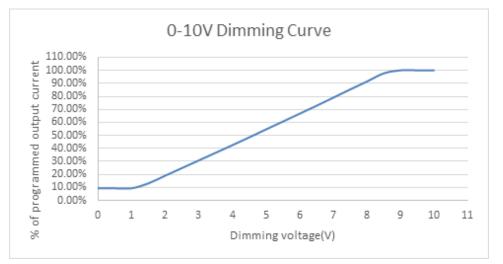
- Driver Design Life is 100,000 hours at Tc < 70C. See life estimation curve based on Tc temp in data below.
- Driver designed for less than .1% failures/1000 hr at Tc = 70C.
- Other factors such as AC line event or thermal excursions above Tc =70 can shorten life expectance.



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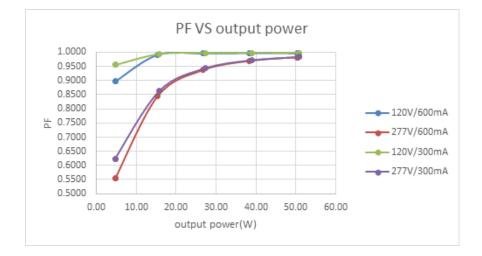




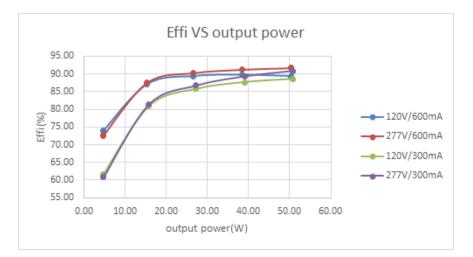




#### **Power Factoror**



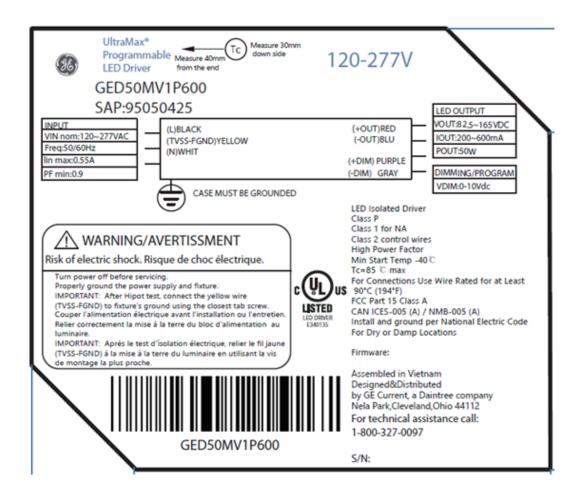






GED50MV1P600									
Input Inrush Current									
Input Voltage (Vrms)	Peak Current Pulse(A)	Pulse Duration (50% of Peak), uS							
120	20.3	155							
277	46.3	168							

# **Product Label**

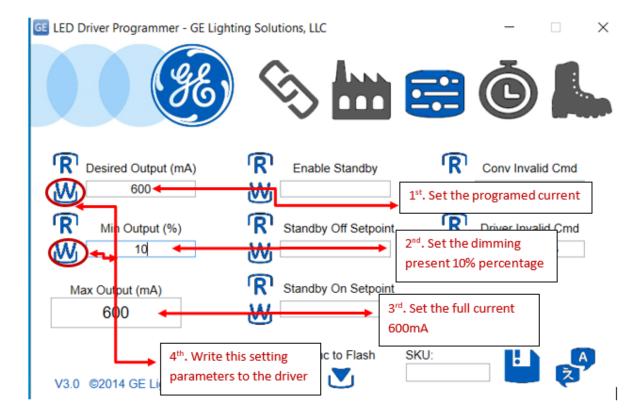




### **Current Programming Interface**

### Instructions for programming with engineering GUI

- This driver requires 0-10V programming interface controller and software to program to desired output current.
- The programming interface leads are polarized and proper polarity matching is required for the programmer to work correctly. The purple wire is the + polarity and connects to the purple 0-10V dimming wire of the LED driver. The gray (or pink) wire is the common or negative polarity and connects to the corresponding 0-10V dimming wire of the LED driver.
- Power on LED driver and programming interface
- Open engineering programming GUI and select driver programming page 📰
- Input desired maximum current value to be programmed
- Set minimum dimming level to 10%
- Enter 600mA into Max output register for the LED driver
- Select and actuate write button to complete the programming of driver.
- Other driver programming software may be different but the parameters listed for for this driver need to be entered for proper driver programming.





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