

# 50W TCO Outdoor Dimming Driver



GED50MV1P600

SAP: 95050425

Description: 0~10V/current Programmable

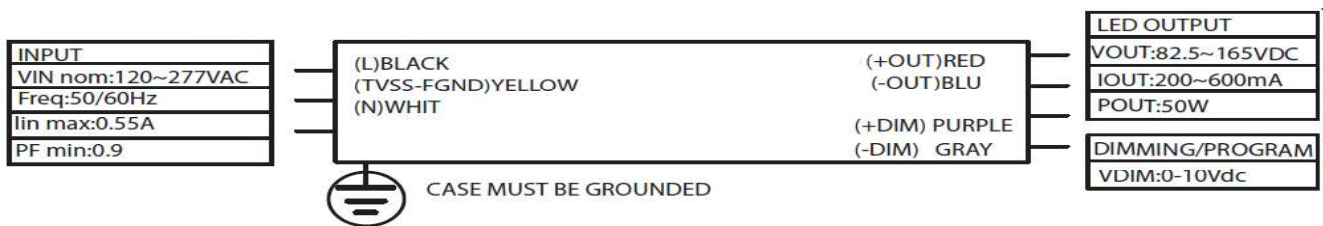
Input Voltage: 120V/277Vac±10%

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  | Min               | Max   | Min                                | Max |                                  |                   |                 |
| 120-277Vac       | 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) | 0-10V<br>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

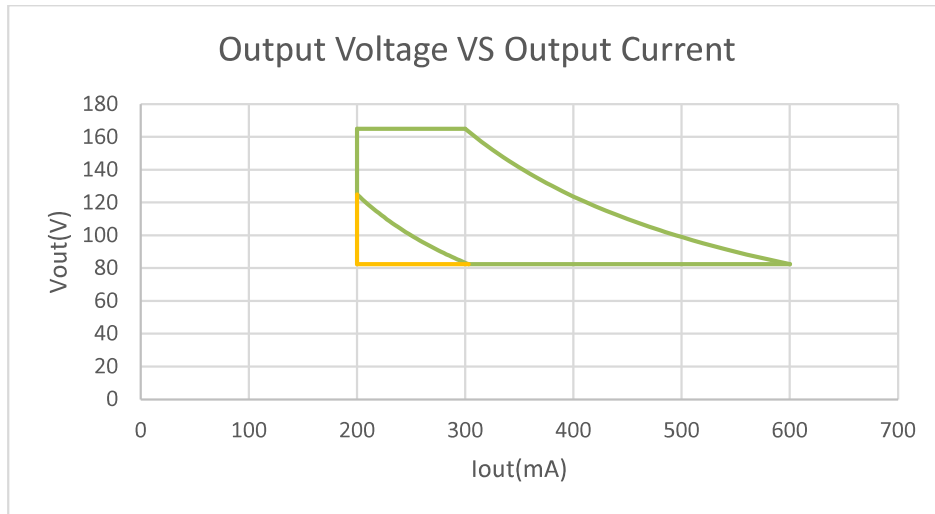
- The unit is classified as Class 1 as stipulated in UL8750.
- Dimming circuit is classified as Class 2 as stipulated in UL1310.
- Minimum ambient operating temperature: -40°C.
- Maximum allowable case temperature: 85°C.
- For reliability and failure rate information, contact GE Technical Sales Representative.
- 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 EN55015:2013.
- The unit is resistant to surges as per IEEE/ANSI C136.2-2015 C LOW (10kV/5kA) for NA Class 1 and EU Class I applications.
- The unit is resistant to surges as Per IEC61000-4-5 4kV/2kA in EU Class II applications.
- The unit cannot be hot plug-in at output side.

**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

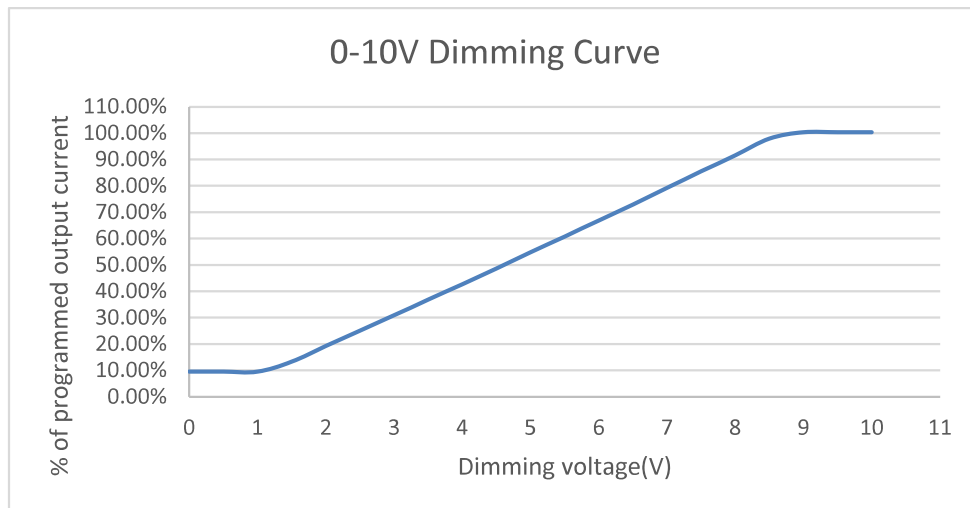
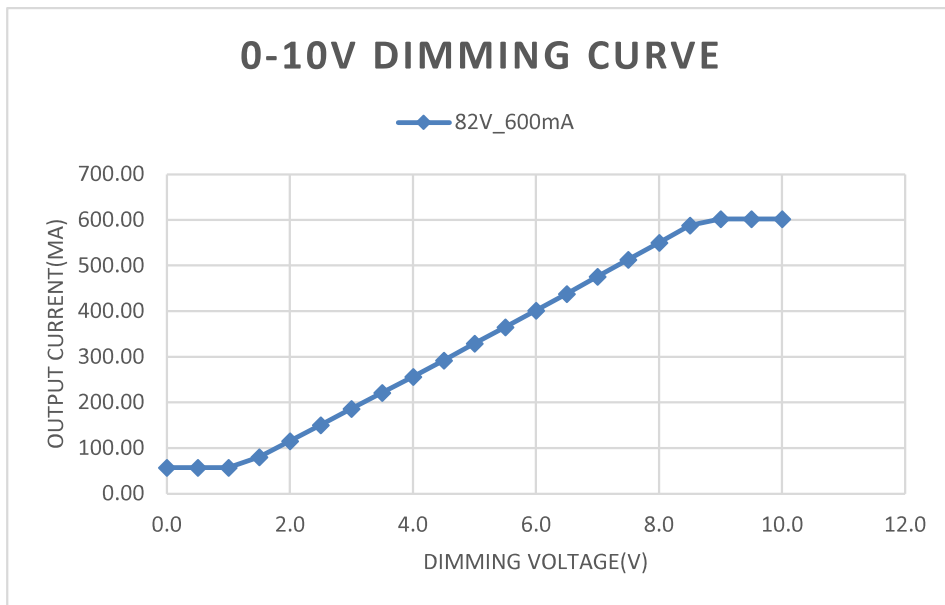
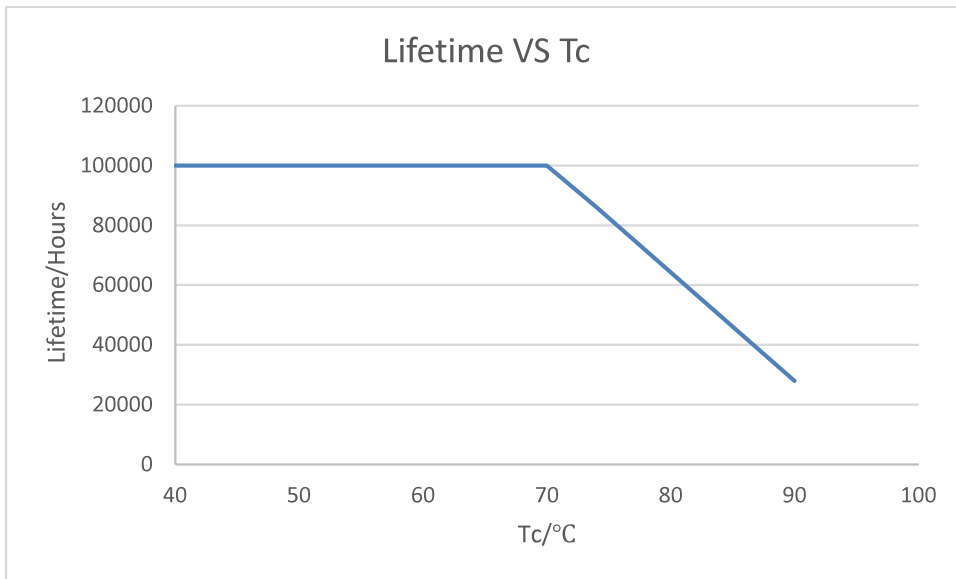
### GED50MV1P600



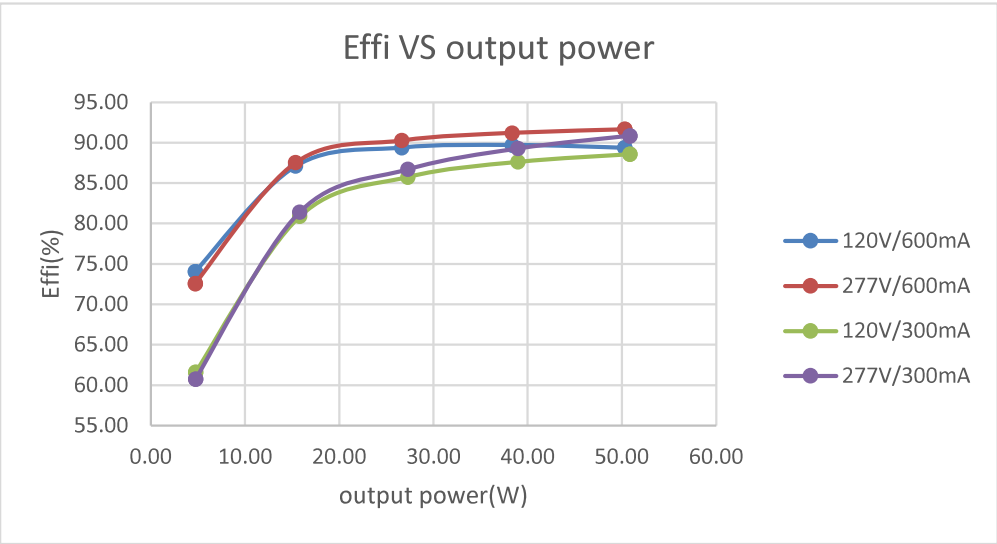
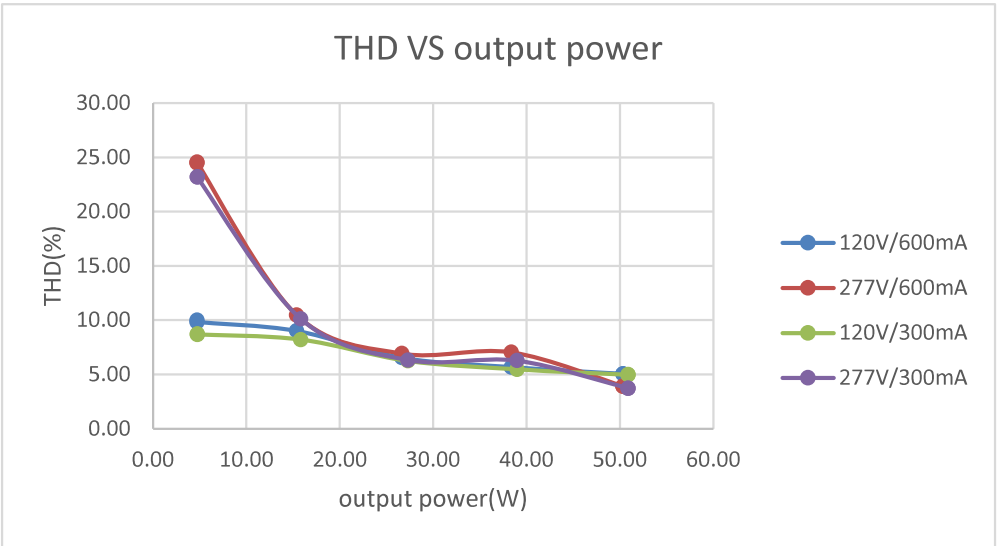
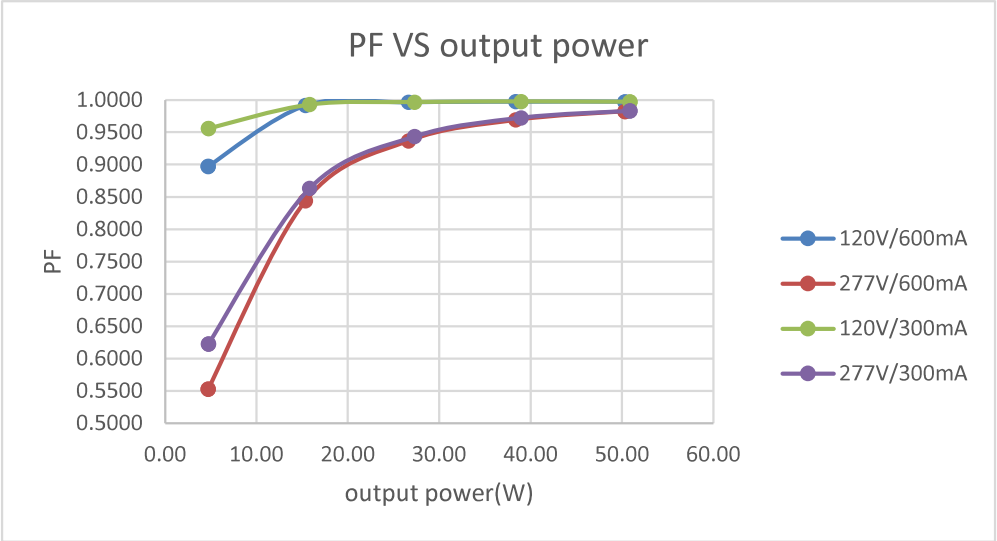
Note: the operation window is tested at room temperature = 25degC

**Green:** Operation Window (PF>0.9, THD<20%, 10% dimming depth)

**Yellow:** Driver can work within this window, but not ensure the PF>0.9.



GED50MV1P600



| GED50MV1P600         |                       |                              |
|----------------------|-----------------------|------------------------------|
| Input Inrush Current |                       |                              |
| Input Voltage        | Peak Current Pulse(A) | Pulse Duration (50% of Peak) |
| [V <sub>rms</sub> ]  | 50W_9-1               | [uS]                         |
| 120                  | 20.3                  | 155                          |
| 277                  | 46.3                  | 168                          |

## Product Label



UltraMax®  
Programmable  
LED Driver

Measure 40mm from the end

Measure 30mm down side

120-277V

GED50MV1P600  
SAP:95050425

**INPUT**

VIN nom:120~277VAC  
Freq:50/60Hz  
I<sub>in</sub> max:0.55A  
PF min:0.9

(L)BLACK  
(TVSS-FGND)YELLOW  
(N)WHIT

(+OUT)RED  
(-OUT)BLU  
(+DIM) PURPLE  
(-DIM) GRAY

**LED OUTPUT**

VOUT:82.5~165VDC  
IOUT:200~600mA  
POUT:50W

**DIMMING/PROGRAM**

VDIM:0-10Vdc

 CASE MUST BE GROUNDED

**WARNING/AVERTISSEMENT**  
Risk of electric shock. Risque de choc électrique.

Turn power off before servicing.  
Properly ground the power supply and fixture.  
IMPORTANT: After Hipot test, connect the yellow wire (TVSS-FGND) to fixture's ground using the closest tab screw.  
Couper l'alimentation électrique avant l'installation ou l'entretien.  
Relier correctement la mise à la terre du bloc d'alimentation au luminaire.  
IMPORTANT: Après le test d'isolation électrique, relier le fil jaune (TVSS-FGND) à la mise à la terre du luminaire en utilisant la vis de montage la plus proche.

 **UL** **LISTED**  
LED DRIVER  
E340135

LED Isolated Driver  
Class P  
Class 1 for NA  
Class 2 control wires  
High Power Factor  
Min Start Temp -40°C  
Tc=85 °C max  
For Connections Use Wire Rated for at Least 90°C (194°F)  
FCC Part 15 Class A  
CAN ICES-005 (A) / NMB-005 (A)  
Install and ground per National Electric Code  
For Dry or Damp Locations

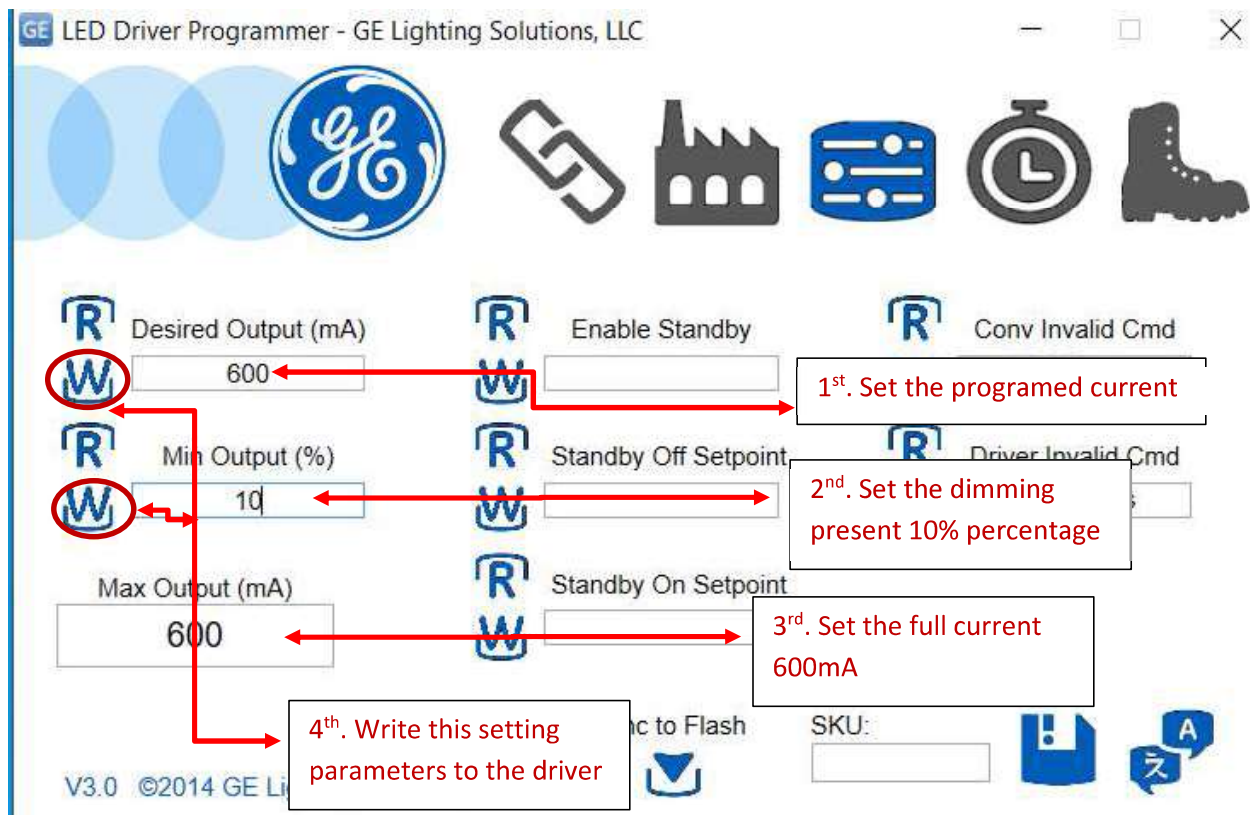
Firmware:  
Assembled in Vietnam  
Designed&Distributed  
by GE Current, a Daintree company  
Nela Park,Cleveland,Ohio 44112  
For technical assistance call:  
1-800-327-0097

  
GED50MV1P600

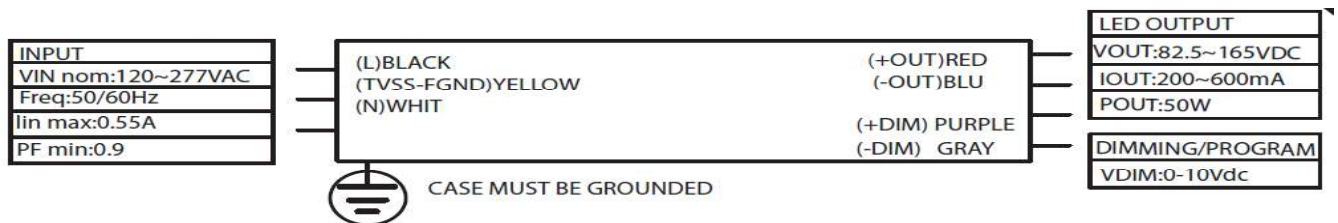
S/N:

## Current Programming Interface

Firstly open the software and click the System Temp sheet, then put the value to be programmed (between 0 to 100%) into the Current Programming, finally click the set button to complete the programming of driver.



## Notes



- Used as 0-10V dimming interface, it needs to distinguish polarity, purple wire connects to 0-10V '+', and gray wire connects to 0-10V '-', the same as all 0-10V drivers.