50W TCO Outdoor Dimming Driver

GED50MV1P600

SAP：95050425

Description: 0~10V/current Programmable

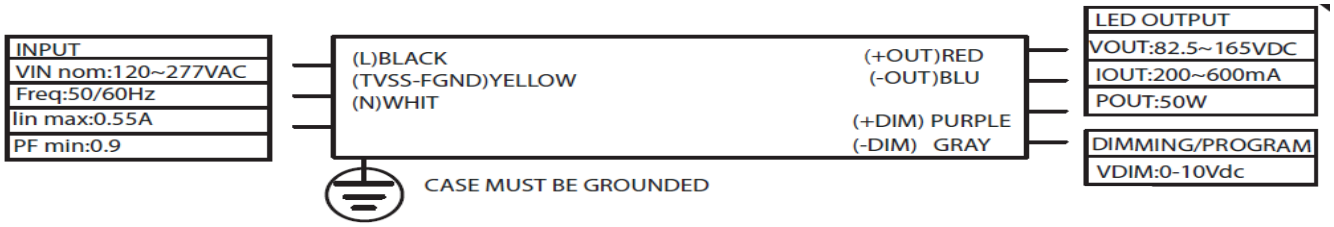
Input Voltage: 120V/277Vac±10%

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		0-10V	
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)	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

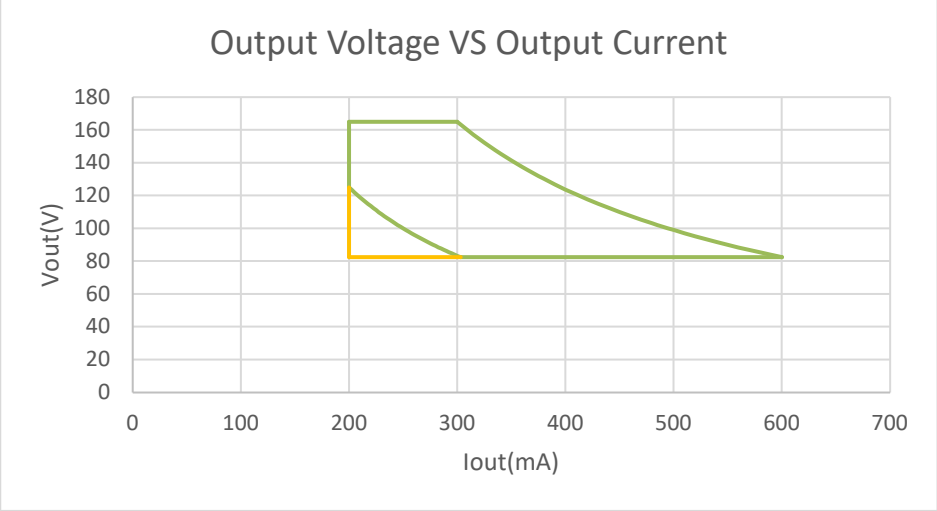
- The unit is classified as Class 1 as stipulated in UL8750.
- Dimming circuit is classified as Class 2 as stipulated in UL1310.
- Minimum ambient operating temperature: -40°C.
- Maximum allowable case temperature: 85°C.
- For reliability and failure rate information, contact GE Technical Sales Representative.
- 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

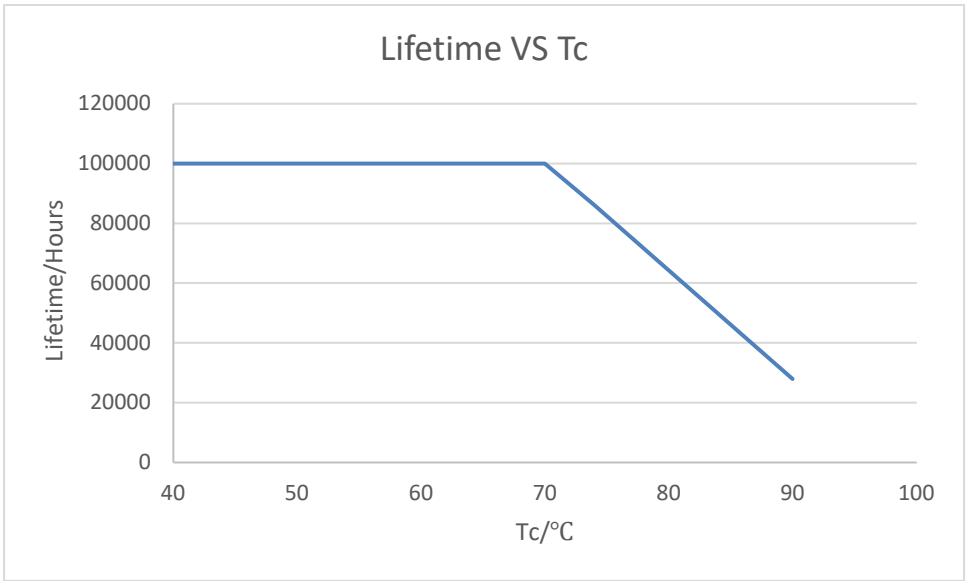
- The unit has been examined to comply with Class 1 Output Criteria
- The unit is only to be used in dry or damp locations
- The metal casing must be connected to EARTH.
- TVSS-GND (Yellow wire) shall be connected to fixture ground after hi-pot test using closest tab screw. THIS IS NOT A SAFETY GROUND!

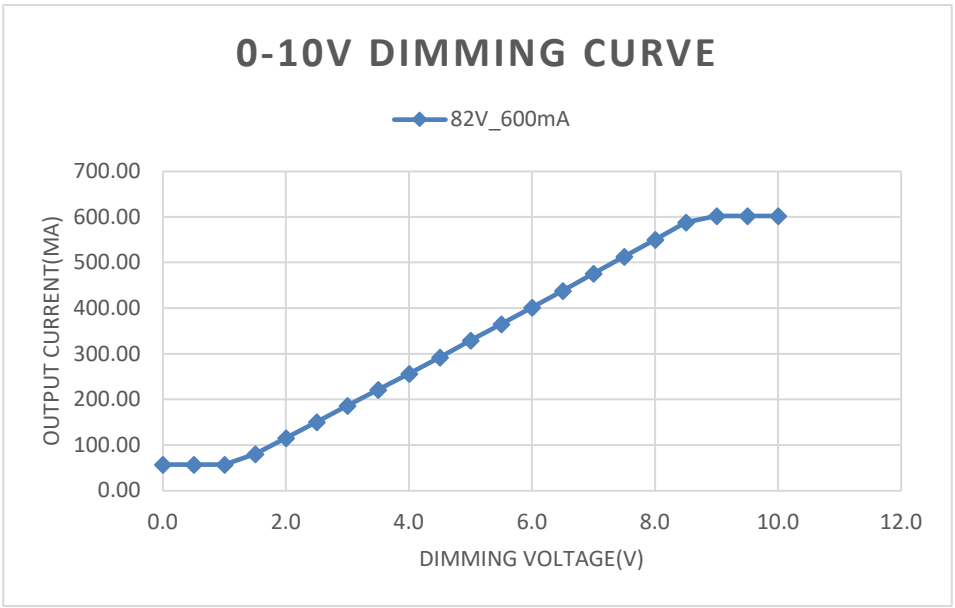
Technical Information

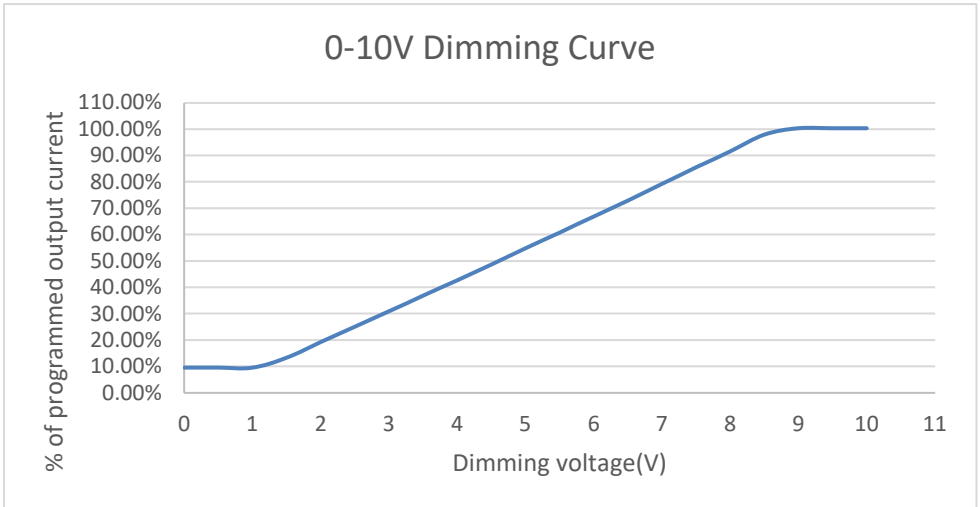
GED50MV1P600



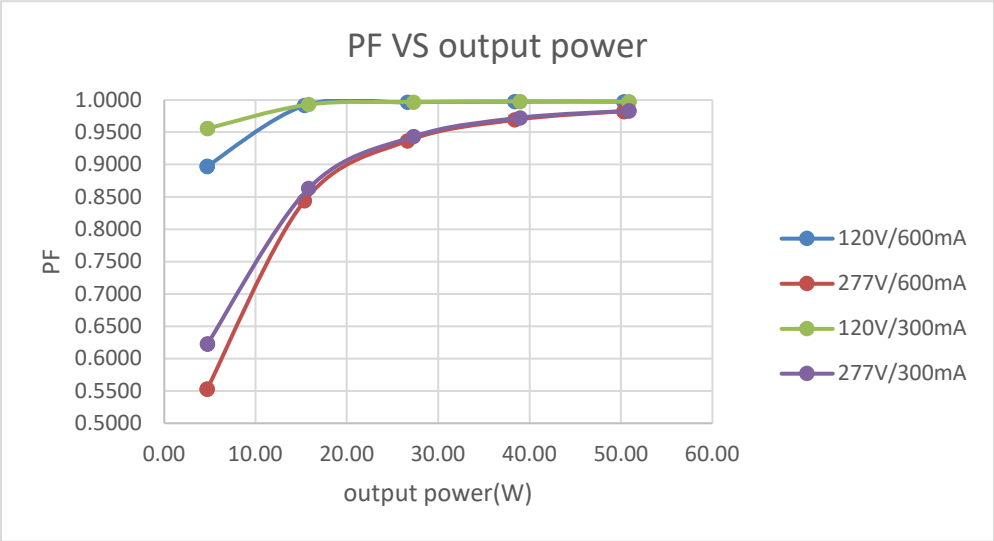
Note: the operation window is tested at room temperature = 25degC
Green: Operation Window (PF>0.9, THD<20%, 10% dimming depth)
Yellow: Driver can work within this window, but not ensure the PF>0.9.

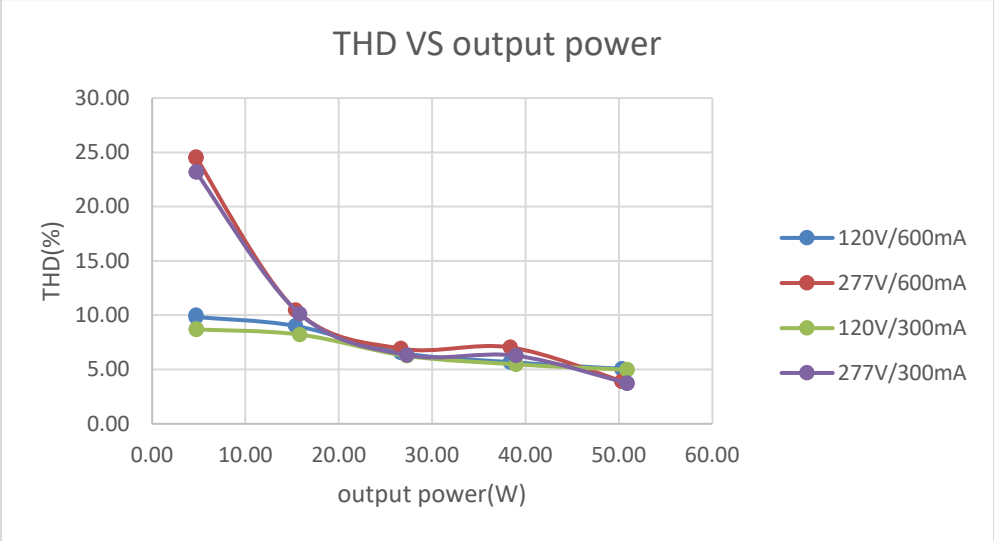

Lifetime VS Tc
120000
100000
80000
60000
40000
20000
0
Lifetime/Hours
40
50
60
70
80
90
100
Tc/°C

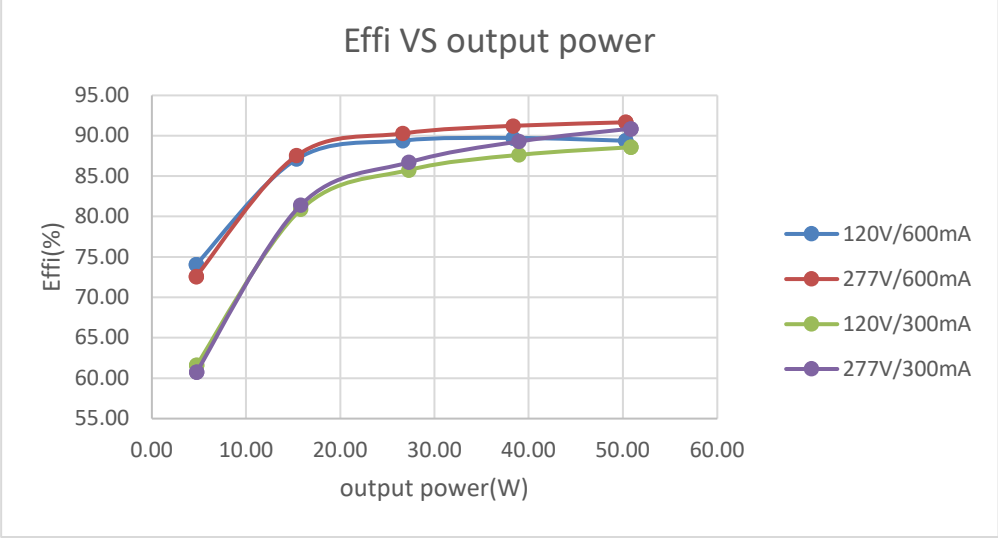

0-10V DIMMING CURVE
82V_600mA
700.00
600.00
500.00
400.00
300.00
200.00
100.00
0.00
OUTPUT CURRENT(MA)
0.0
2.0
4.0
6.0
8.0
10.0
12.0
DIMMING VOLTAGE(V)


0-10V Dimming Curve
110.00%
100.00%
90.00%
80.00%
70.00%
60.00%
50.00%
40.00%
30.00%
20.00%
10.00%
0.00%
% of programmed output current
0
1
2
3
4
5
6
7
8
9
10
11
Dimming voltage(V)

GED50MV1P600

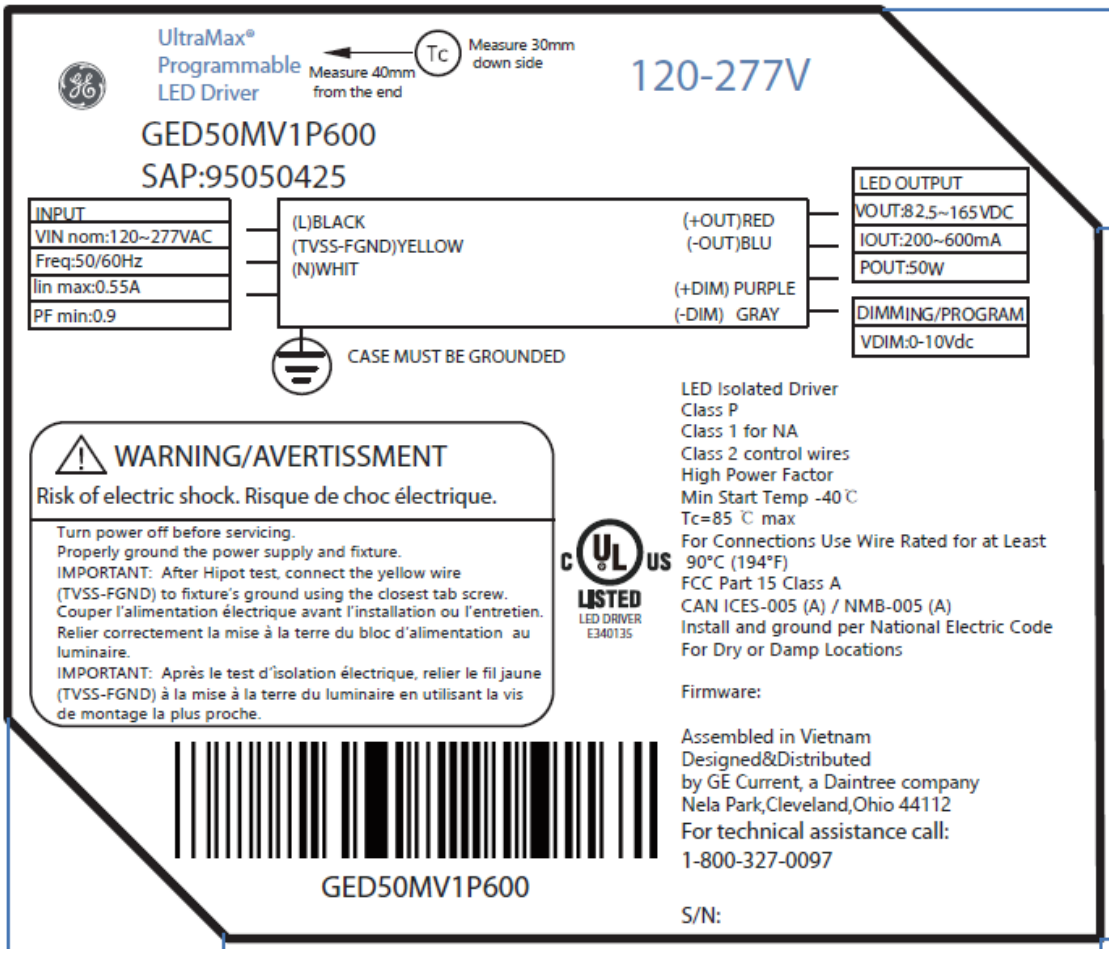






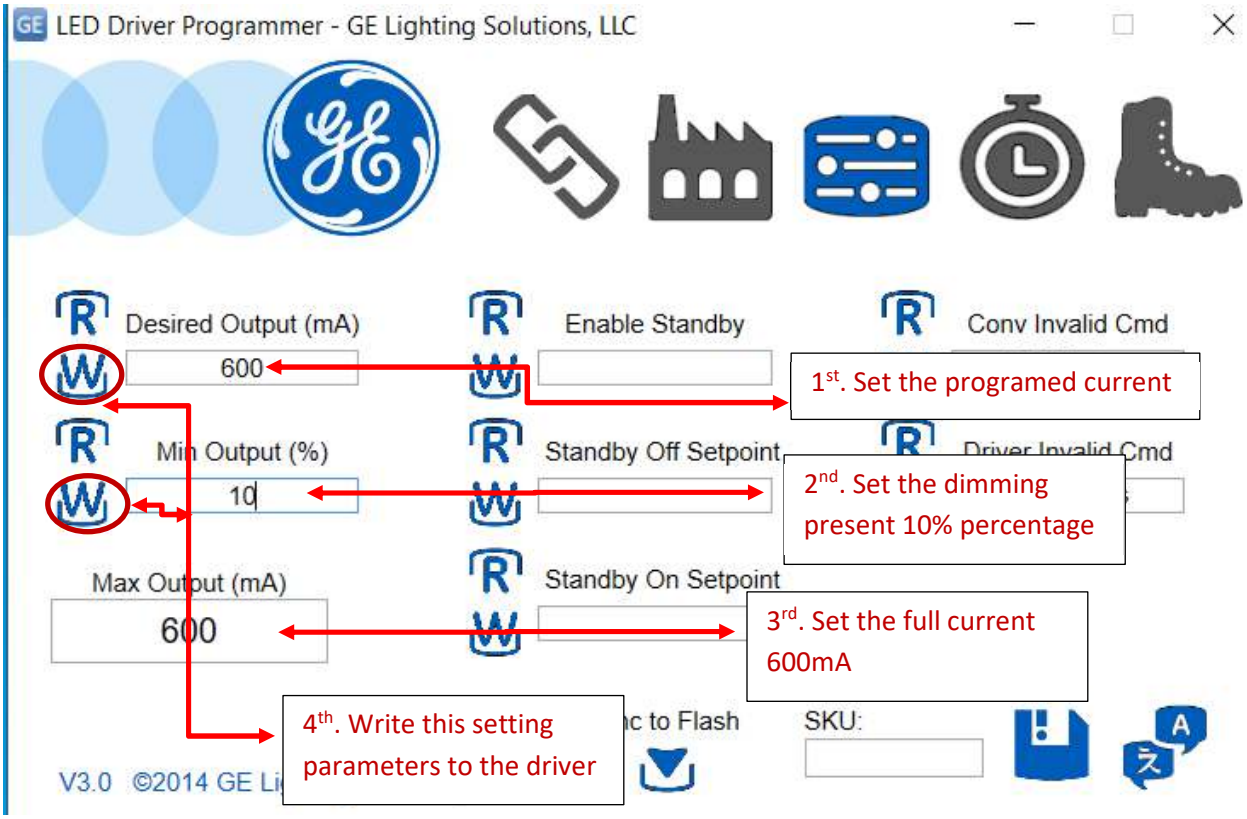
GED50MV1P600		
Input Inrush Current		
Input Voltage	**Peak Current Pulse(A)**	**Pulse Duration (50% of Peak)**
[V_{rms}]	**50W_9-1**	[uS]
120	20.3	155
277	46.3	168

Product Label



Current Programming Interface

Firstly open the softwareand 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.



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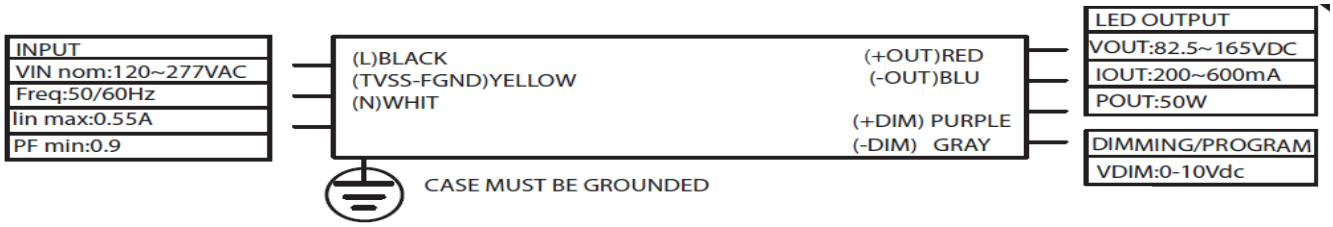
Notes



1. 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.