



## Indoor Class 2 LED Driver

### D90MC/V2P175 0S

Description: 90W 0.9 A~1.75 A 0-10V Dimmable/Programmable Class 2 PSU

Input Voltage: 120-277 Vac +/-10% (UL), 230 Vac +/-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 @ 25W Po (277Vac)	PF @ 25W Po (277Vac)	Inrush Current (A/mS)	Surge Protection (kV/kA)	Weight (lbs/g)
90	0.9 -1.75 ± 5%	21-51	>90%	0.87A (UL), 0.45A (CE)	103W	<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

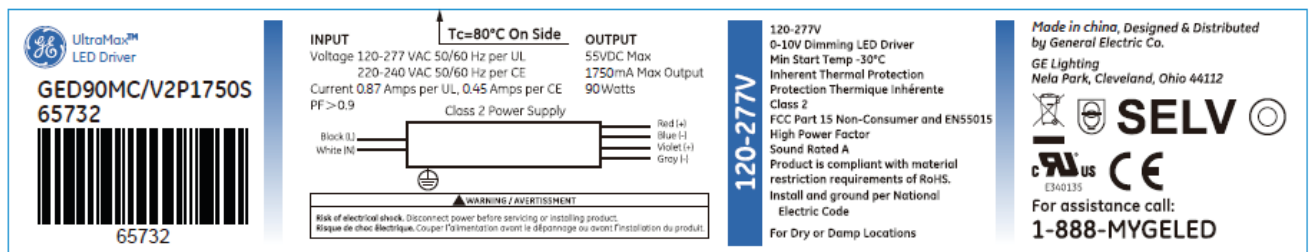
The unit is classified as Class 2 as stipulated in UL1310.  
Dimming circuit is classified as Class 2 as stipulated in UL1310.  
Minimum ambient operating temperature: -30°C.  
Maximum allowable casing temperature: 80°C.  
For reliability and failure rate information, contact LED Indoor Electronics Team .  
The unit is UL certified for operation in dry/damp locations.  
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



**UltraMax™ LED Driver**  
**GED90MC/V2P1750S**  
**65732**

**INPUT**  
Voltage 120-277 VAC 50/60 Hz per UL  
220-240 VAC 50/60 Hz per CE  
Current 0.87 Amps per UL, 0.45 Amps per CE  
PF > 0.9  
Class 2 Power Supply

**OUTPUT**  
55VDC Max  
1750mA Max Output  
90Watts

Black (I)  
White (N)

Red (+)  
Blue (-)  
Violet (+)  
Gray (-)

**Tc=80°C On Side**

**120-277V**  
0-10V Dimming LED Driver  
Min Start Temp -30°C  
Inherent Thermal Protection  
Protection Thermique inhérente  
Class 2  
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  
For Dry or Damp Locations

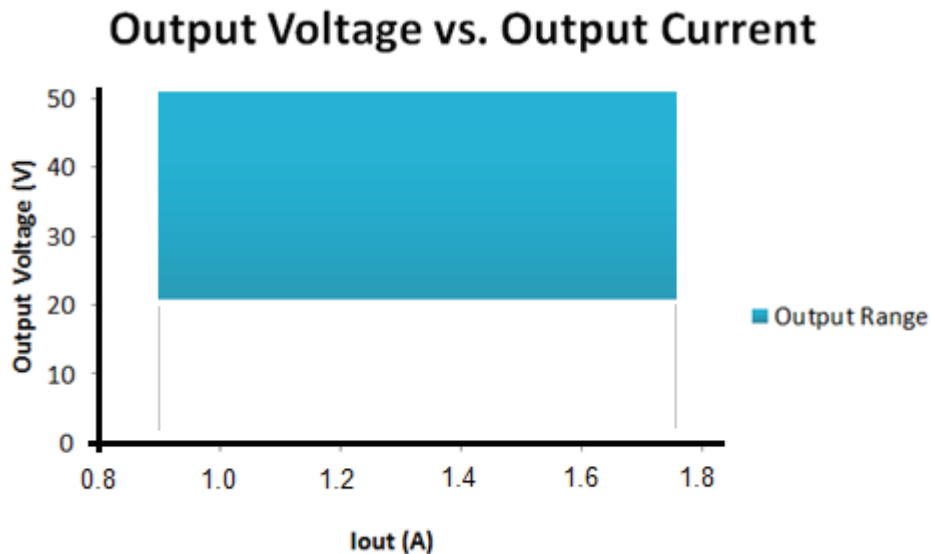
Made in china, Designed & Distributed by General Electric Co.  
GE Lighting  
Nela Park, Cleveland, Ohio 44112

**SELV**  
CE  
E340135  
For assistance call:  
**1-888-MYGELED**

**WARNING / AVERTISSEMENT**  
Risk of electrical shock. Disconnect power before servicing or installing product.  
Risque de choc électrique. Couper l'alimentation avant le dépannage ou avant l'installation du produit.

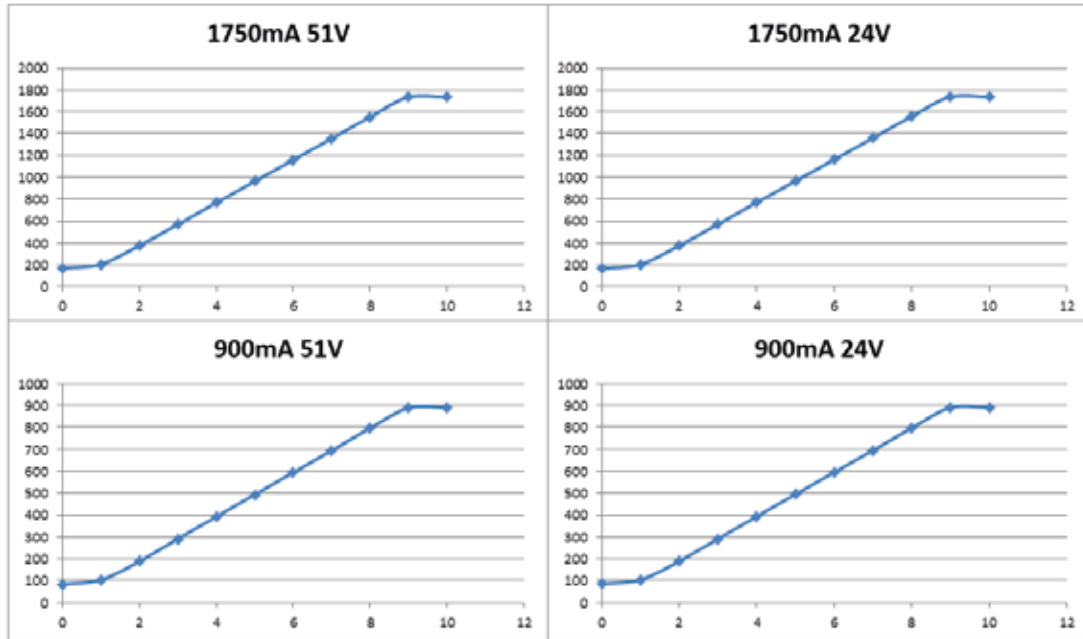
## Technical Information

Output Voltage/Current Range (23V – 52V, 0.9A – 1.75A)



## 0-10V Dimming Curve

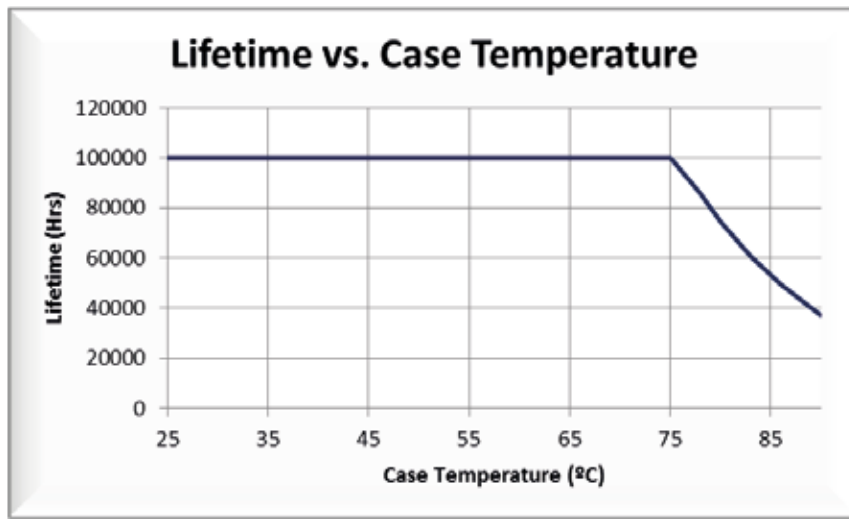
Driver sources 0.5mA dimming current. Dimming Level range is from 10% to 100%.



90W CLASS 2 0-10V dimming curves

## Technical Information

### Lifetime Expectation



## Power Factor & Total Harmonics Distortion

Programmed current	Input voltage	Input power	Output power	Power Factor	THD	EFFICIENCY	Output current
1.75A	120V	98.2	87.53	99.9	4.442	89.13	1.74
1.75A	277V	95.4	87.42	98.6	8.836	91.64	1.735
0.90A	277V	35.6	30.15	93.5	18.2	84.69	0.8913

## Technical Information

### Input Inrush Current

Input Inrush Current		
Input Voltage [V <sub>rms</sub> ]	Peak Current Pulse [A <sub>pk</sub> ]	Pulse Duration (50% of Peak) [us]
120V	18.0A	210.4
277V	40.2A	222.4

### Leakage Current

Input Ground Leakage Current		
Input Voltage [V <sub>rms</sub> ]	Leakage Current (mA)	
	S1 ON	S1 OFF
120V	0.15	0.32
240V	0.28	0.60
277V	0.38	0.78

## Product D imensions



## Current Programming Interface

Firstly set the Max Current to 1750mA and the Min Current to 900mA in the input box, then put the value to be programmed (between 900mA to 1750mA) into the input box for Current to Program, finally click the Send button to complete the programming of driver.

