



## Indoor Class 2 LED Driver

### D90MC/V2P1750S

Description: 90W 0.9A~1.75A 0-10V Dimmable/Program

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 @ 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.

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- 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

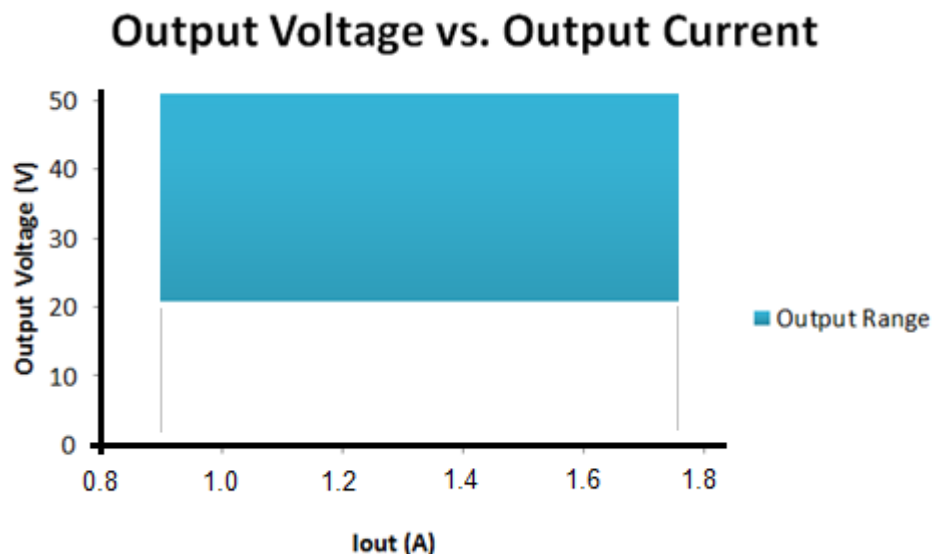
- The unit has been examined to comply with Class 2 Output Criteria
- The unit is only to be used in dry or damp locations
- The metal casing must be connected to **EARTH**.
- The “LED” and “DIM” output circuits must remain isolated from one another to be considered class 2 circuits in the end use.

### Product Label

|                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p><b>GED90MC/V2P1750S</b><br/><b>65732</b></p>  <p>65732</p> | <p><b>INPUT</b><br/>Voltage 120-277 VAC 50/60 Hz per UL<br/>220-240 VAC 50/60 Hz per CE<br/>Current 0.87 Amps per UL, 0.45 Amps per CE<br/>PF &gt; 0.9</p> <p><b>OUTPUT</b><br/>55VDC Max<br/>1750mA Max Output<br/>90Watts</p> <p><b>Class 2 Power Supply</b></p> <p>Black (L)<br/>White (N)</p> <p>Red (+)<br/>Blue (-)<br/>Violet (+)<br/>Gray (-)</p> <p><b>WARNING / AVERTISSEMENT</b><br/>Risk of electrical shock. Disconnect power before servicing or installing product.<br/>Risque de choc électrique. Couper l'alimentation avant le dépannage ou avant l'installation du produit.</p> | <p><b>120-277V</b></p> <p>120-277V<br/>0-10V Dimming LED Driver<br/>Min Start Temp -30°C<br/>Inherent Thermal Protection<br/>Protection Thermique Inhérente<br/>Class 2<br/>FCC Part 15 Non-Consumer and EN55015<br/>High Power Factor<br/>Sound Rated A<br/>Product is compliant with material<br/>restriction requirements of RoHS.<br/>Install and ground per National<br/>Electric Code<br/>For Dry or Damp Locations</p> | <p>Made in china, Designed &amp; Distributed<br/>by General Electric Co.</p> <p>GE Lighting<br/>Nela Park, Cleveland, Ohio 44112</p> <p>   </p> <p>For assistance call:<br/><b>1-888-MYGELED</b></p> |
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## Technical Information

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

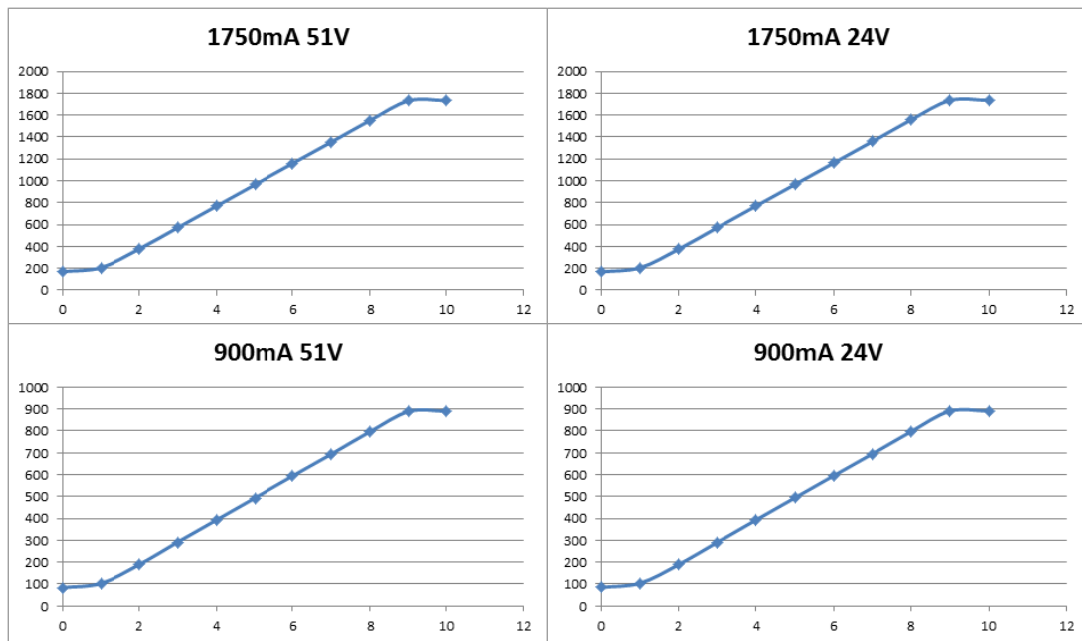


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## 0-10V Dimming Curve

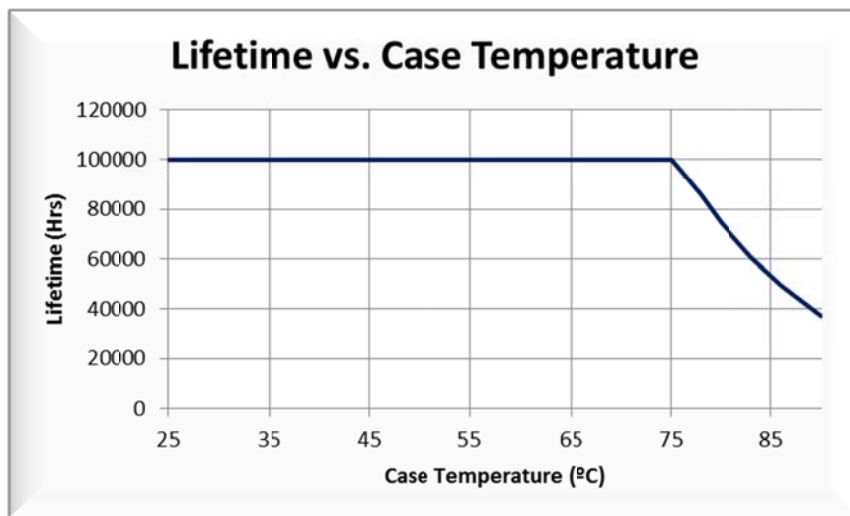
Driver sources 0.5mA dimming current. Dimming Level range is from 10% to 100%.



90W CLASS 2 0-10V dimming curves

## Technical Information

### Lifetime Expectation



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

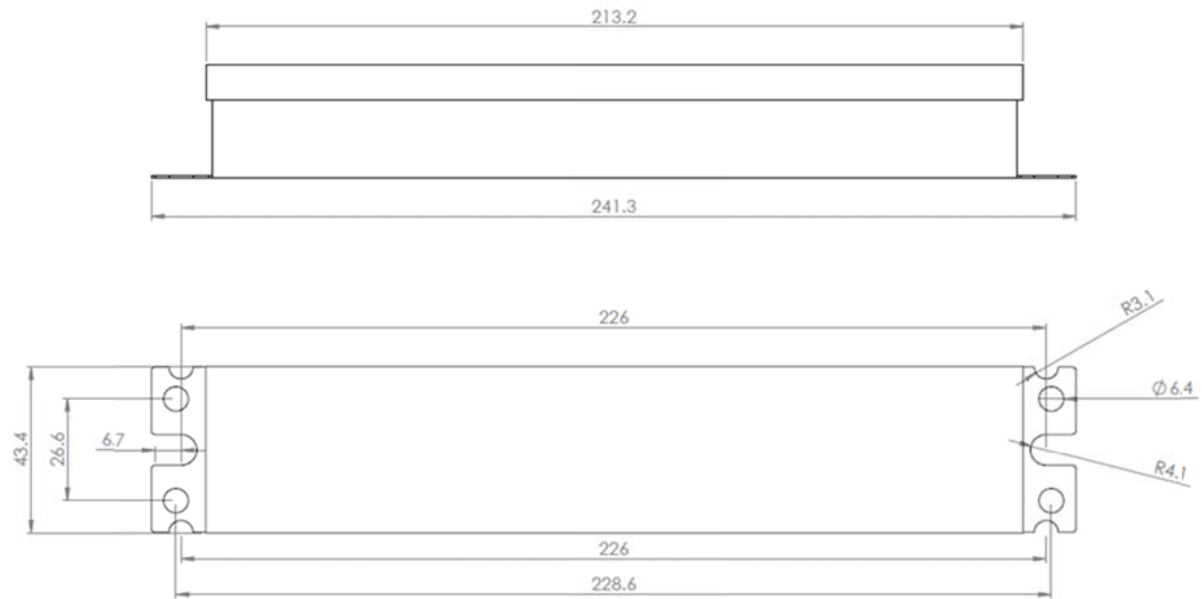
### Leakage Current

| Input Ground Leakage Current         |                      |        |
|--------------------------------------|----------------------|--------|
| Input Voltage<br>[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   |

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## Product Dimensions



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