



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

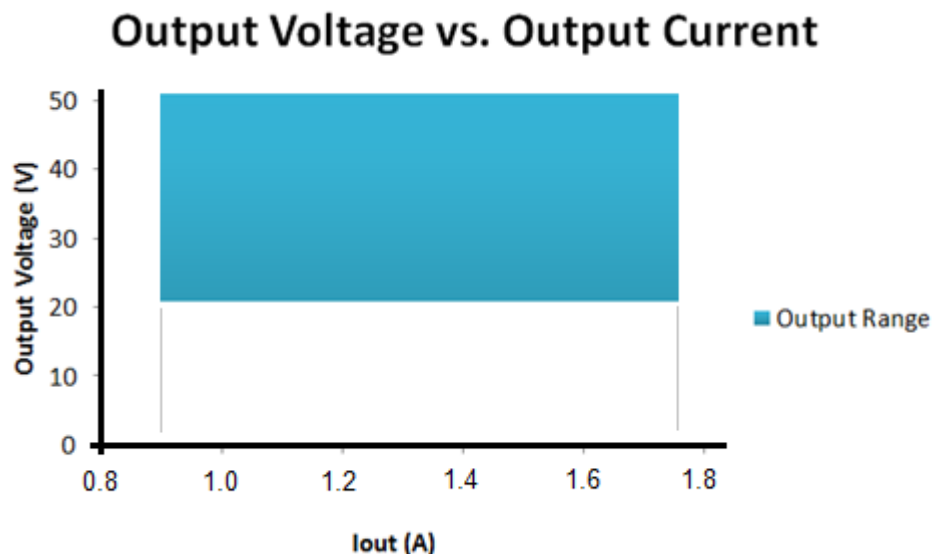
- The unit has been examined to comply with Class 2 Output Criteria
- The unit is only to be used in dry or damp locations
- The metal casing must be connected to **EARTH**.
- The “LED” and “DIM” output circuits must remain isolated from one another to be considered class 2 circuits in the end use.

Product Label

 GED90MC/V2P1750S 65732  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 OUTPUT 55VDC Max 1750mA Max Output 90Watts Class 2 Power Supply Black (L) White (N) Red (+) Blue (-) Violet (+) Gray (-) 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.	120-277V 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     For assistance call: 1-888-MYGELED
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Technical Information

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

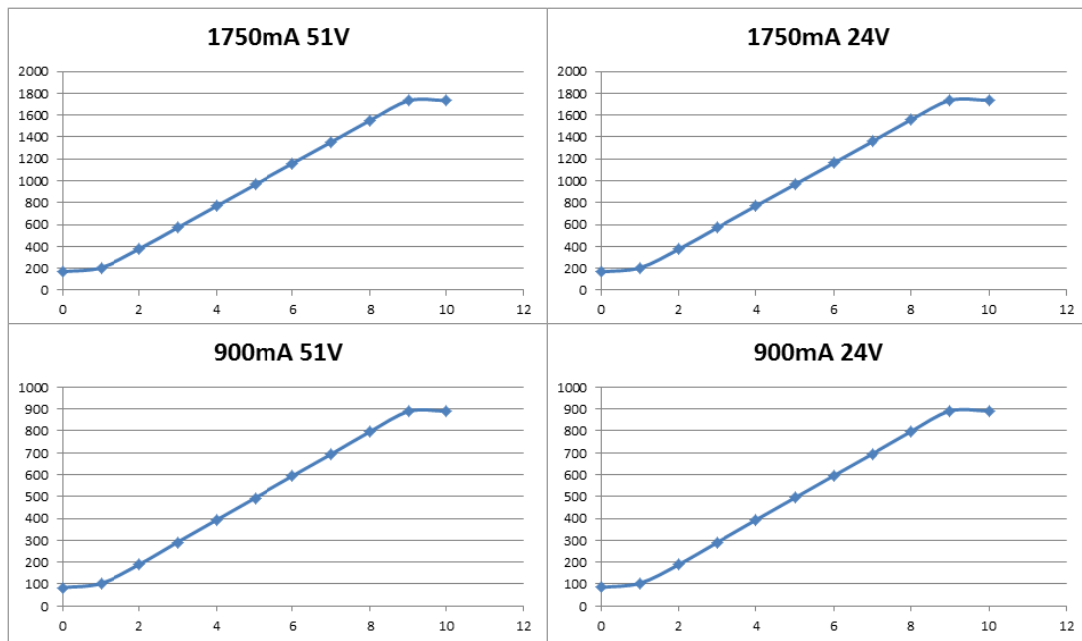


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0-10V Dimming Curve

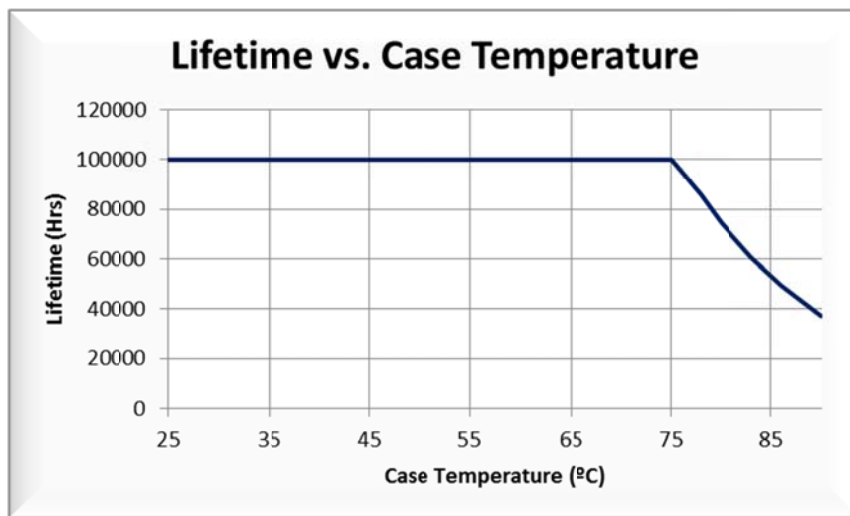
Driver sources 0.5mA dimming current. Dimming Level range is from 10% to 100%.



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 [V _{rms}]	Peak Current Pulse [A _{pk}]	Pulse Duration (50% of Peak) [us]
120V	18.0A	210.4
277V	40.2A	222.4

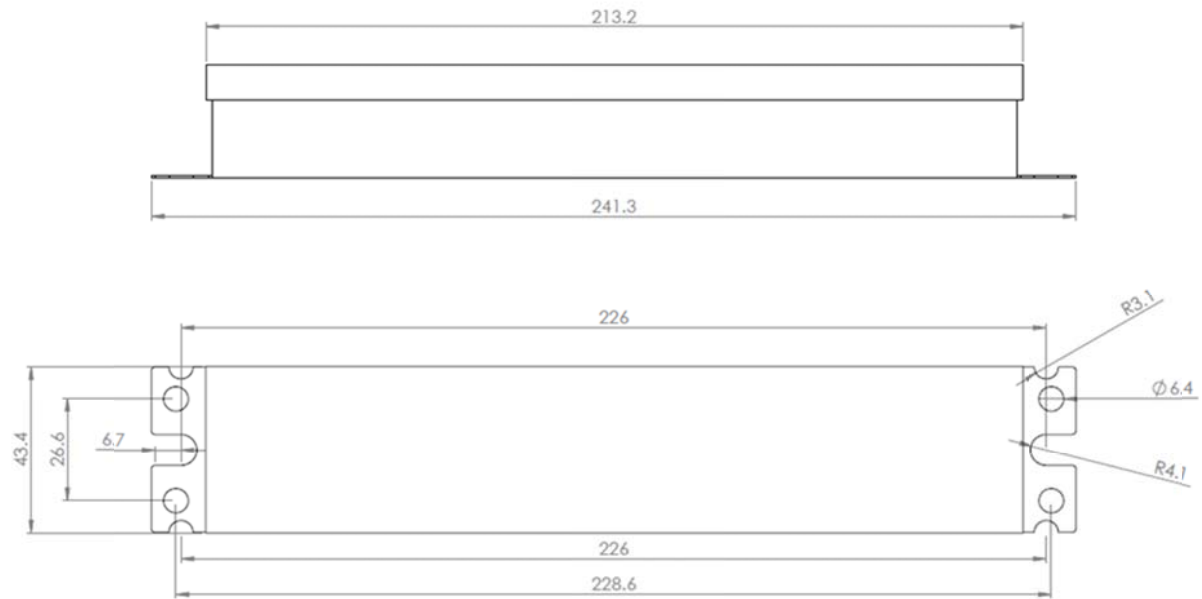
Leakage Current

Input Ground Leakage Current		
Input Voltage [V _{rms}]	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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