

## 150 Watt - LG150W Series

CONSTANT CURRENT LED DRIVER WITH 0-10V DIMMING OPTION



**150W**  
 LG150W Series  
 0-10V DIMMING

### Model: LG150W Series

- Drive Mode: Constant Current
- Technology: PFC Corrected Off-Line Switch Mode
- Output Power: 150W Max.
- Input Voltage: 120 to 277VAC, 50/60Hz
- Number of Outputs: One
- Output Voltages: 70VDC - 425VDC
- Output Currents: 350mA - 700mA
- Optional 0-10V Dimming, 100% ~ 10% CCR

### Environmental

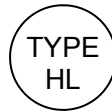
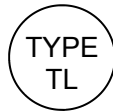
1. Operating temperature: Tc 80C Maximum. Reference -30 to +60°C ambient
2. UL Type TL (Tref Max/Meas. Tref): 65/58°C
3. Storage temperature range: -40 to +85°C
4. Humidity (non-condensing): 5% - 95%RH
5. Cooling: Convection
6. Vibration Frequency: 5-55Hz/2g, 30 minutes
7. Impact resistance: 1g/s
8. MTBF@ 40°C: 295,000 hours @ Full Load per MIL-217F Notice 2.

### Compliance

1. UL8750, EN61347, CSA 22.2, UL Type TL & HL recognized.
2. FCC, 47CFR Part 15 Non-Consumer Class A compliant
3. Water resistant and Dust Proof Design: IP66, NEMA13, for Dusty, Dry, Damp Locations.
4. Compact, Lightweight Design.
5. Output & Dimming Circuits are Non-Isolated, Non Class 2
6. Protection: output over-voltage, output over-current, output short circuit, reset by power cycling.
7. EN61000-4-5: 2kV 8/20 µsec surge protection.

### Electrical Specifications at 25°C

- Input voltage range: 120 to 277VAC
- Frequency: 50/60HZ
- Power Factor: > .92 at full load 120Vac/230Vac 50/60Hz
- Inrush current: <40A at 25C, 230V, cold start, Max. Load
- Input current: 1.4A @ 120Vac, 0.68A @ 230Vac
- Efficiency: Up to 93% typical at 230Vac Full Load
- Maximum output power: 150W
- Constant Current regulation: +/-2% Over Input Line Variation
- Load regulation accuracy: +/-4%



IP66



### NON DIMMING VERSIONS

Part Number <sup>(2)(3)</sup>	Output Voltage Range	Output Constant Current	Current Accuracy	Output Power Maximum	Typical Efficiency <sup>(1)</sup>
LG150W-425-C0350	142 - 425 VDC	350 mA	± 3%	150W	92%
LG150W-280-C0530	94 - 280 VDC	530 mA	± 3%	150W	91%
LG150W-210-C0700	70 - 210 VDC	700 mA	± 3%	150W	90%

### 0-10V DIMMING VERSIONS

Part Number <sup>(3)</sup>	Output Voltage Range	Output Constant Current <sup>(4)</sup>	Current Accuracy	Output Power Maximum	Typical Efficiency <sup>(1)</sup>
LG150W-425-C0350-RD	142 - 425 VDC	350 mA	± 3%	150W	92%
LG150W-280-C0530-RD	94 - 280 VDC	530 mA	± 3%	150W	91%
LG150W-210-C0700-RD	70 - 210 VDC	700 mA	± 3%	150W	90%

### Notes

1. Typical efficiency measured at 230VAC input, full load
2. For 0-10V dimmable version add -RD to the end of the part number: For Example: LG150W-210-C0700-RD is 0-10V dimmable version. -RD 0-10V dimmable version comes with an extra 2 wires +Violet/-Grey on the output side.
3. All models have Non-Isolated UL & cUL Non-Class 2 Outputs. Dimming wires are considered part of the output.
4. -RD models when connected to a dimming device will have a +/-10% output current tolerance. This is due to variation between different 0-10V dimmers.
5. AC Input (White/Black), Output (+Red/-Blue) and Dimming (+Violet/-Grey) leads are 8" (20cm) long 18AWG, 105C/600V solid copper.
6. Case must be Grounded in end use application.

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LED Optimized Drivers

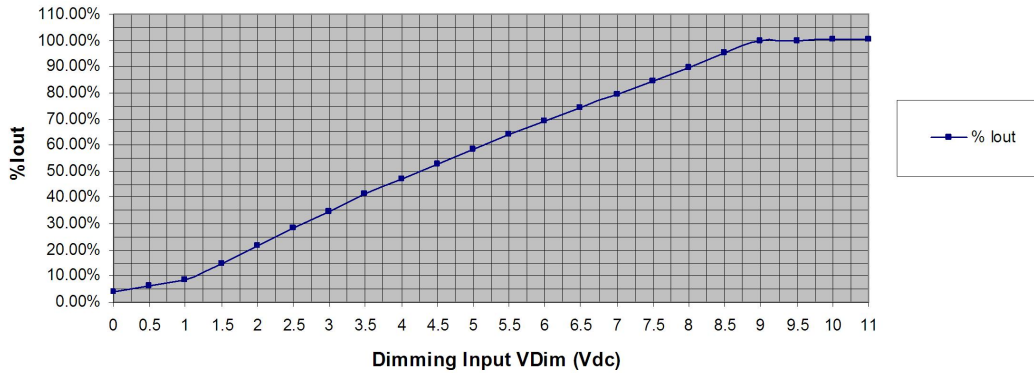
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## -RD 2-Wire 0-10V CCR Dimming Scheme

Parameters	Minimum	Typical	Maximum
Source Current out of 0-10V Purple Wire	0mA	—	2mA
Absolute Voltage Range on 0-10V (+) Purple Wire	-2.0V	—	+15V
Sink Current into 0-10V Purple Wire	0mA	—	1.2mA

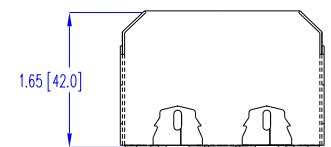
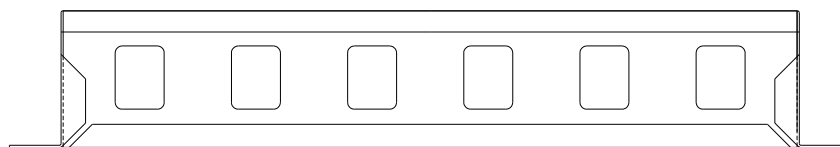
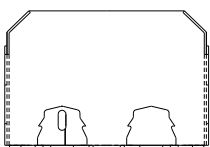
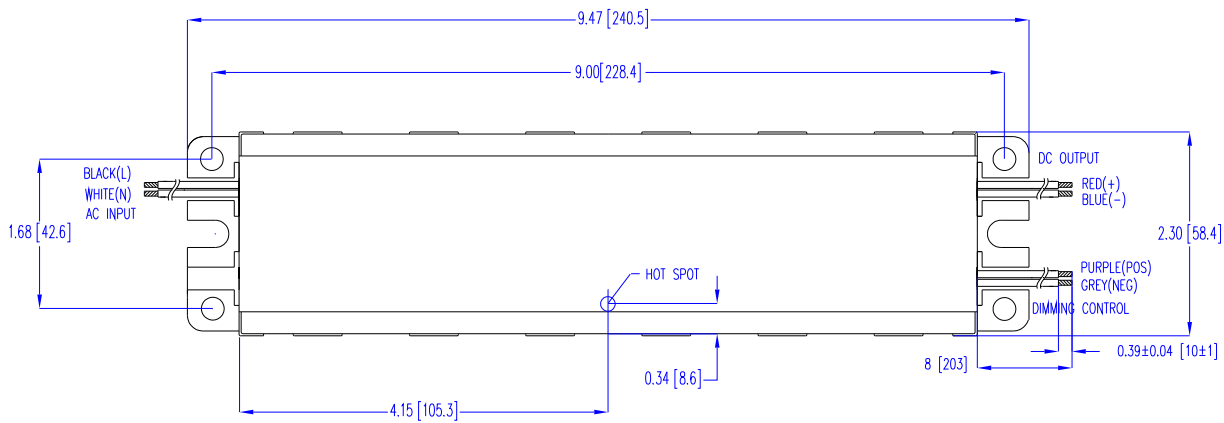
% Output Current vs. 0-10VDC Dimming Input



## Mechanical Dimensions: Inches [mm]

Material: Black Metal Housing  
Fully Encapsulated  
Weight: 45 oz (1270 grams) Typical

## Labeling Example



Specifications subject to change without notice

Custom designs available. Please consult with the factory.