



LED Optimized Drivers

120 Watt - LG120W Series

CONSTANT CURRENT LED DRIVER WITH 0-10V DIMMING OPTION



120W
 LG120W Series
 0-10V DIMMING

Model: LG120W Series

- Drive Mode: Constant Current
- Technology: PFC Corrected Off-Line Switch Mode
- Output Power: 120W Max.
- Input Voltage: 120 to 277VAC, 50/60Hz
- Number of Outputs: One
- Output Voltages: 38VDC - 343VDC
- Output Currents: 350mA - 1050mA
- Optional 0-10V Dimming, 100% ~ 10% CCR

Environmental

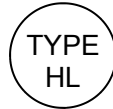
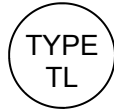
1. Operating temperature: Tc 80C Maximum. Reference -30 to +60°C ambient
2. UL Type TL (Tref Max/Meas. Tref): 76/58°C
3. Storage temperature range: -40 to +85°C
4. Humidity (non-condensing): 5% - 95%RH
5. Cooling: Convection
6. Vibration Frequency: 5-55Hz/2g, 30 minutes
7. Impact resistance: 1g/s
8. MTBF@ 40°C: 380,000 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: 1.2A @ 120Vac, 0.60A @ 230Vac
- Efficiency: Up to 91% typical at 230Vac Full Load
- Maximum output power: 120W
- Constant Current regulation: +/-2% Over Input Line Variation
- Load regulation accuracy: +/-4%



IP66



NON DIMMING VERSIONS

Part Number ⁽²⁾⁽³⁾	Output Voltage Range	Output Constant Current	Current Accuracy	Output Power Maximum	Typical Efficiency ⁽¹⁾
LG120W-343-C0350	114 - 343 VDC	350 mA	± 3%	120W	91%
LG120W-226-C0530	75 - 226 VDC	530 mA	± 3%	120W	91%
LG120W-171-C0700	57 - 171 VDC	700 mA	± 3%	120W	90%
LG120W-114-C1050	38 - 114VDC	1050 mA	± 3%	120W	88%

0-10V DIMMING VERSIONS

Part Number ⁽³⁾	Output Voltage Range	Output Constant Current ⁽⁴⁾	Current Accuracy	Output Power Maximum	Typical Efficiency ⁽¹⁾
LG120W-343-C0350-RD	114 - 343 VDC	350 mA	± 3%	120W	91%
LG120W-226-C0530-RD	75 - 226 VDC	530 mA	± 3%	120W	91%
LG120W-171-C0700-RD	57 - 171 VDC	700 mA	± 3%	120W	90%
LG120W-114-C1050-RD	38 - 114VDC	1050 mA	± 3%	120W	88%

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: LG120W-343-C0350-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. 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.

Custom designs available. Please consult with the factory.

Specifications subject to change without notice

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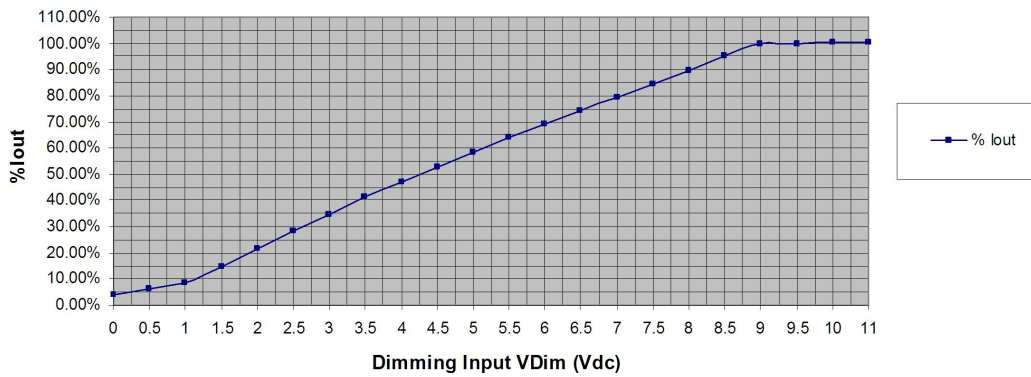
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-RD 2-Wire 0-10V Dimmable

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: 26 oz (738 grams) Typical

Labeling Example

Part Number: LG120W-343-C0350-RD
 Input Voltage: 120-277VAC 50/60Hz
 Input Current: 1.2 Amp Max
 Output Voltage: 114-343 VDC
 Output Current: 350 mA CC, 120W Maximum
 UL Type HL & TL 76/58°C

0-10V CCR Dimmable Output

DC OUTPUT
 += RED
 -= BLUE

0-10V DIMMING
 DIM+ = VIOLET
 DIM- = GRAY

IP66

Case Must Be Grounded

Made in China REV: A1.2

