LEG-120W Series– Fixed Output and Dimmable

Switch Mode LED Drivers
Constant Current, Non-Isolated
Black Magic Thermal Advantage™ Metallic Housing

Electrical Specifications

Input Voltage Range:	**120-277 Vac Nom. (108-305 V Min/Max)**
Input Over-Voltage:	**Can endure 320Vac for 48 Hrs, 350Vac for 2 Hrs**
Frequency:	**50/60 Hz Nom. (47-63 Hz Min/Max)**
Power Factor:	**>0.90 @ full load, 100V through 277V**
THD:	**≤ 20% @ for all loads >80%**
Inrush Current:	**<40.0 Amps max @ 230 Vac, cold start 25ºC**
Input Current:	**1.2A@ 120Vac, 0.6A @ 230Vac**
Maximum Power:	**120W**
Current Accuracy:	**± 1% Over input line variation**
Load Regulation:	**± 4%**
Leakage Current:	**400 µA Typical**
Hold Up Time:	**Half Cycle**
Protection:	**Output Over-Voltage, Output Over-Current, and Output Short Circuit Protection, reset by power cycling**

Environmental Specifications

Minimum Starting Temp:	**-30ºC**
Maximum Case Temp.	**80°C**
Storage Temperature:	**-40ºC to +85ºC**
Humidity:	**5% to 95%**
Cooling:	**Convection**
Vibration Frequency:	**5 to 55 Hz/2g, 30 minutes**
Sound Rating:	**Class A**
MTBF:	**380,000 Hours at full load and 40ºC ambient conditions per MIL-217F Notice 2**
EMC:	**FCC 47CFR Part 15 Class A compliant**
Impact Resistance:	**1g/s**
Weight:	**26 oz (738 grams)**

- Total Power: 120 Watts
- Input Voltage: 100-277 Vac Nom.
- UL Dry & Damp Location Rated
- IP66
- High Power Factor
- UL8750, EN61347, CSA 22.2

Constant Current - Non Dimming

Model Number	Output Voltage Range *(Vdc)*	Output Current *(mA ±3%)*	Max Output Power *(W)*	Max Efficiency
LEG120W-343-C0350	114-343	350	120	91%
LEG120W-226-C0530	75-226	530	120	91%
LEG120W-171-C0700	57-171	700	120	90%
LEG120W-114-C1050	38-114	1050	120	88%

Constant Current - 0-10VDC Dimming

Model Number	Output Voltage Range *(Vdc)*	Output Current *(mA ±3%)*	Max Output Power *(W)*	Max Efficiency
LEG120W-343-C0350-D	114-343	350	120	91%
LEG120W-226-C0530-D	75-226	530	120	91%
LEG120W-171-C0700-D	57-171	700	120	90%
LEG120W-114-C1050-D	38-114	1050	120	88%

Ordering Options:

-D: 0-10V & Resistance dimmable version comes with an extra two wires +Purple/-Gray on the output side. 0-10V Dimming is compatible with most quality 0-10V dimmers. See pg. 3 for more information.

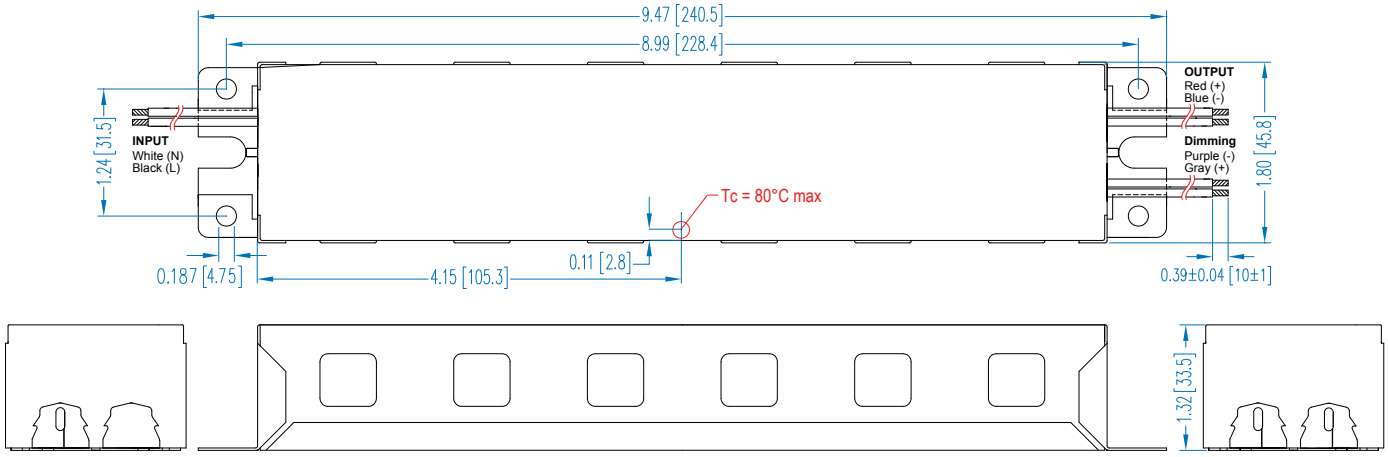
E332160

Note:
LED drivers are designed and intended to operate LED loads only. Non-LED loading may be outside the specified design limits of our LED drivers, and therefore cannot be covered by any warranty. If you desire to use our LED drivers to operate non-LED loads please contact us to discuss compatibility.

Specifications subject to change without notice.

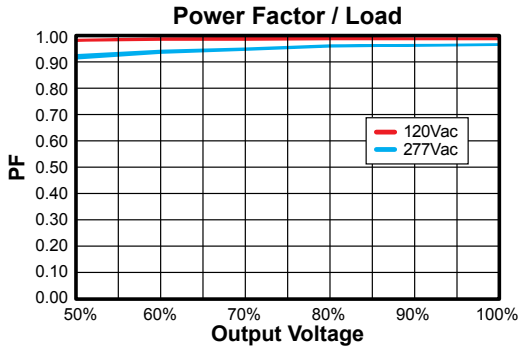
Rev 8-31-15

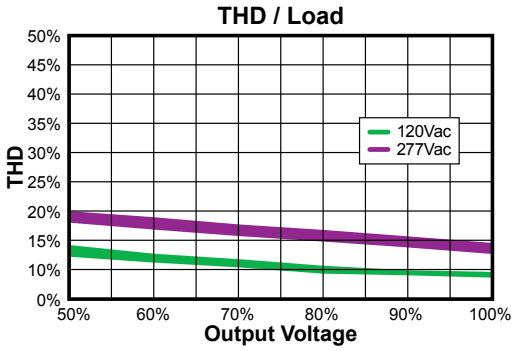
Dimensions - Inches (mm)

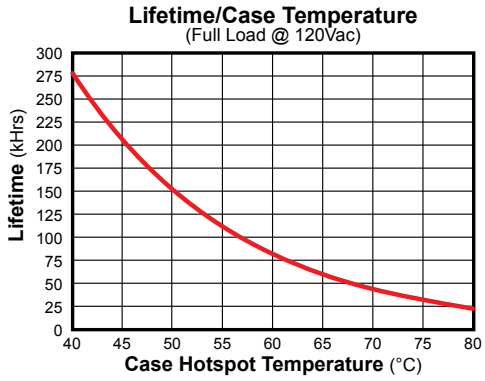


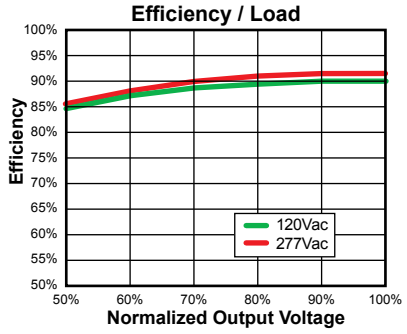
CASE MUST BE GROUNDED IN END USE APPLICATION

WIRE SPECS:
AC Input / DC Output / Dimming Control:
- Solid Copper
- 8 IN [203mm]
- UL1316/1452 #18AWG









Note:
Life calculations are based on reliability with confidence using a 90% confidence level and <5% failure rate. At a confidence level of 90% it is expected that <5% of the parts will fail at the rated life provided. (Failure is defined as a driver drifting outside specification, rather than fail to operate)

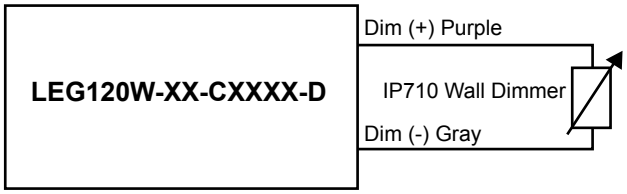
UL Conditions of Acceptability

See website for additional information

"-D" Option: - 0-10VDC and Resistance Dimming

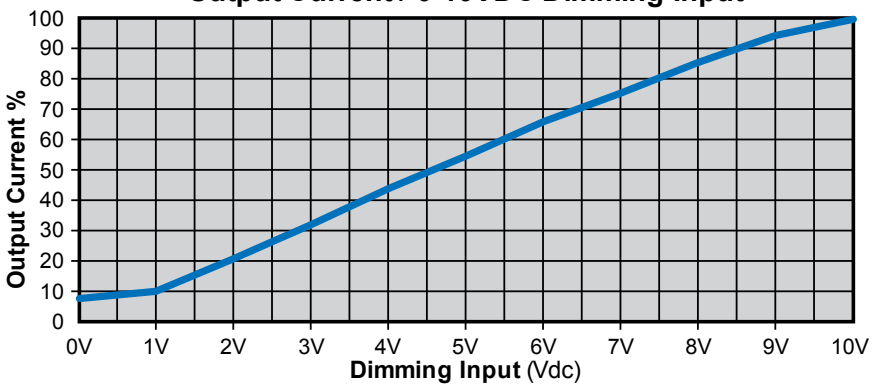
Parameters	Minimum	Typical	Maximum
Absolute Voltage Range on 0-10V (+) Purple Wire	-2.0 V	—	+15 V
Source Current into 0-10V Purple Wire	0 mA	—	2 mA

Typical Dimming Circuit



(Dimmer must be current-sink type control)

Output Current / 0-10VDC Dimming Input



Notes:

1. 0-10V dimmable version comes with an extra two wires +Purple/-Gray on the output side.
2. When connected to a dimming device, 0-10V dimmable version will have a ±10% output current tolerance. This is due to variation between different 0-10V dimmers.
3. Compatible with most 0-10V Wall Slide dimmers and direct 0-10V analog signal. Recommended dimmer is Leviton IP710 or equivalent
4. 0-10V dimmable version is not intended to dim below about 5% @ 0V or 10% @ 1.0V
5. 0-10V dimmable version output will be 100% with Purple/Gray open and minimum with Purple/Gray Shorted.