Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

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Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

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**
UL Type TL Rating:	**Non-Class 2: 76/58°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
- UL Type HL Rated for Hazardous Locations

Constant Current - Non Dimming

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

Constant Current - 0-10VDC Dimming

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

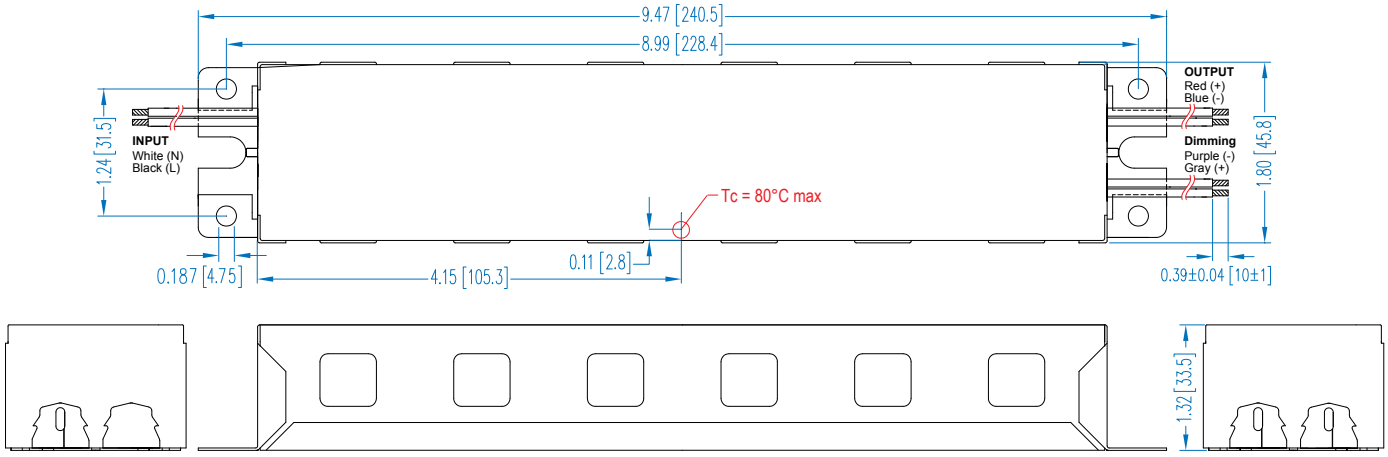
E332160

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.

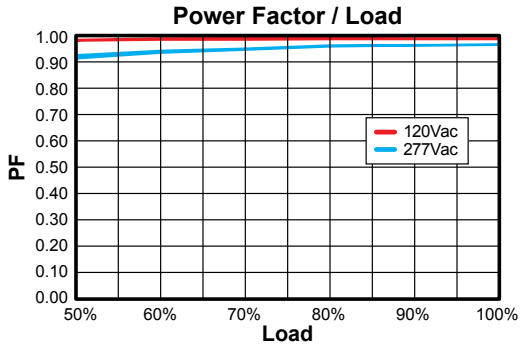
Rev 10-13-16

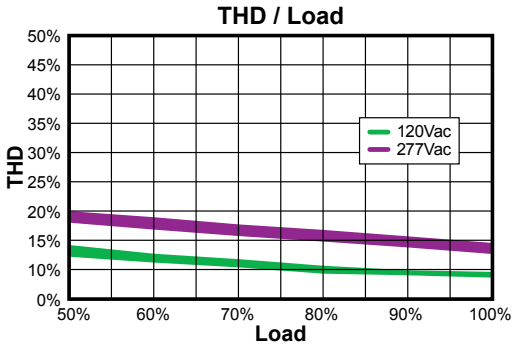
Dimensions - Inches (mm)

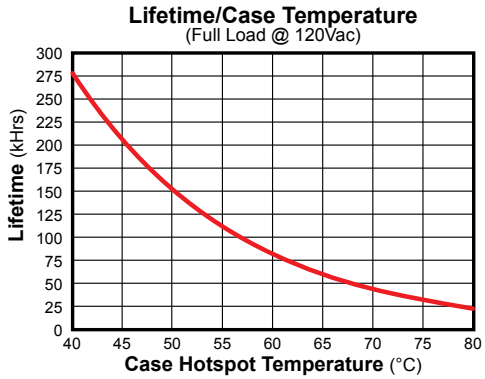


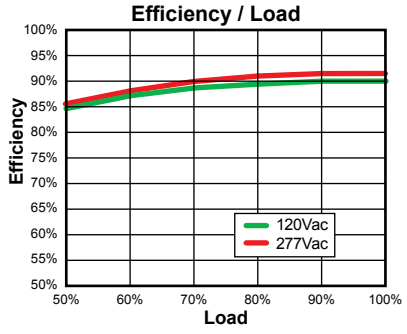
CASE MUST BE GROUNDED IN END USE APPLICATION

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









Safety Cert.	Standard
UL/CUL	UL8750
CSA	22.2
CE	EN61347
EMC Standard	**Notes**
FCC, 47CFR Part 15	Class B
EN6100-4-5	2KV L-N, 8/20 μsec Surge Protection

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)

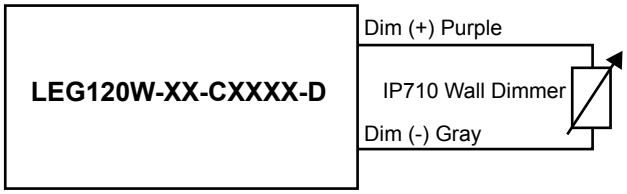
UL Conditions of Acceptability

See website for additional information

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

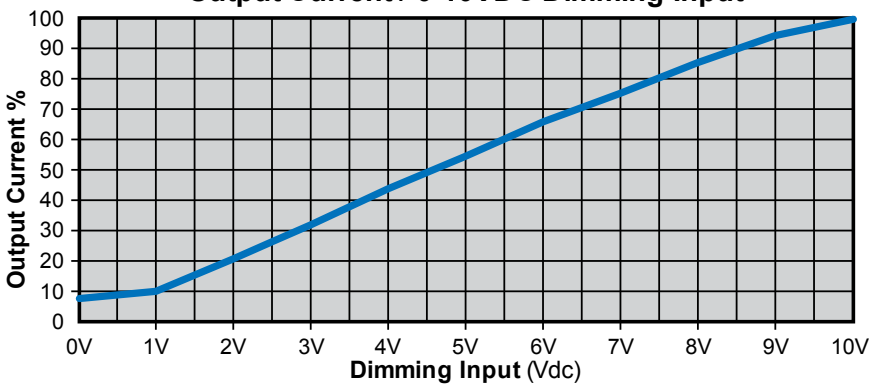
Parameters	Minimum	Typical	Maximum
Absolute Voltage Range on 0-10V (+) Purple Wire	-2.0 V	—	+15 V
Source Current into 0-10V Purple Wire	0 mA	—	2 mA

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.