



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

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

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





LED96W-LT Series

Line Voltage Dimmable
Constant Current LED Drivers

Rev 8-28-2017



Electrical Specifications

| | |
|----------------------|--|
| Input Voltage Range: | 120-277V models: 100-305V Min/Max |
| Frequency: | 50/60 Hz Nom. |
| Power Factor: | ≥0.90 @ 60% Load |
| Inrush Current: | <20 Amps @ 277Vac, cold start 25°C, max load |
| Input Current: | 0.94 Amps @ 120Vac, 60Hz, max load |
| Maximum Power: | 96W |
| Line Regulation: | ± 3% |
| Load Regulation: | ± 5% |
| THD: | ≤20% @ ≥ 60% load |
| Start-Up Time: | 0.7 seconds |

Protections

| | |
|---------------|---------------|
| Over-voltage | Output |
| Over-current | Output |
| Short Circuit | Auto Recovery |

Environmental Specifications

| | |
|--|--|
| Max Case Life Temp: (5 year warranty) | 69°C |
| Maximum Case Temp (UL): | 90°C |
| Minimum Starting Temp: | -30°C |
| Storage Temperature: | -40°C to +85°C |
| Humidity: | 5% to 95% |
| Cooling: | Convection |
| Vibration Frequency: | 5 to 55 Hz/2g, 30 minutes |
| Sound Rating: | Class A |
| Impact Resistance: | 1g/s |
| Lifetime: | 50,000 hrs @ Tc=70°C (see graph for details) |
| MTBF: | 375,000 Hours @ full load, 40°C ambient conditions per MIL-217F Notice 2 |
| EMC: | FCC 47CFR Part 15 Class B compliant |
| Weight: | 11.0 oz. (311 g) |



ELV & Triac Dimming Models

| Model | Output Current (mA ±5%) | Output Voltage Range (Vdc) | Max. Output Power (W) | Typical Efficiency |
|---------------------|----------------------------|-------------------------------|--------------------------|-----------------------|
| LED96W-274-C0350-LT | 350 | 162-274 | 96 | 92% |
| LED96W-137-C0700-LT | 700 | 81-137 | 96 | 92% |
| LED96W-092-C1050-LT | 1050 | 54-92 | 96 | 92% |
| LED96W-069-C1400-LT | 1400 | 41-69 | 96 | 91% |
| LED96W-054-C1750-LT | 1750 | 32-54 | 96 | 91% |
| LED96W-048-C2000-LT | 2000 | 28-48 | 96 | 90% |
| LED96W-039-C2450-LT | 2450 | 23-39 | 96 | 90% |
| LED96W-030-C3150-LT | 3150 | 18-30 | 96 | 90% |
| LED96W-024-C4000-LT | 4000 | 14-24 | 96 | 89% |

Class 2: US/Canada

- Total Power: 96 Watts
- Input Voltage: Universal 120-277Vac Phase Dimming Ranges
- CCR Dimming: <10%-100%
- Both ELV & Inc in the same unit
- UL Dry & Damp Location Rated
- IP66 & NEMA4
- Compatible with leading and trailing edge dimmer controls
- Not for use with dimmers designed for magnetic loads
- Type HL Rated
- Compatible with Triac (leading edge) and ELV (electronic low voltage; trailing edge) dimmer controls
- Use a dimmer that closely matches the load, just slightly larger. (EX: For best performance, use a 150W rated dimmer for 100W total LED load instead of 600W dimmer.)
- Black Magic Thermal Advantage™ Plastic Housing

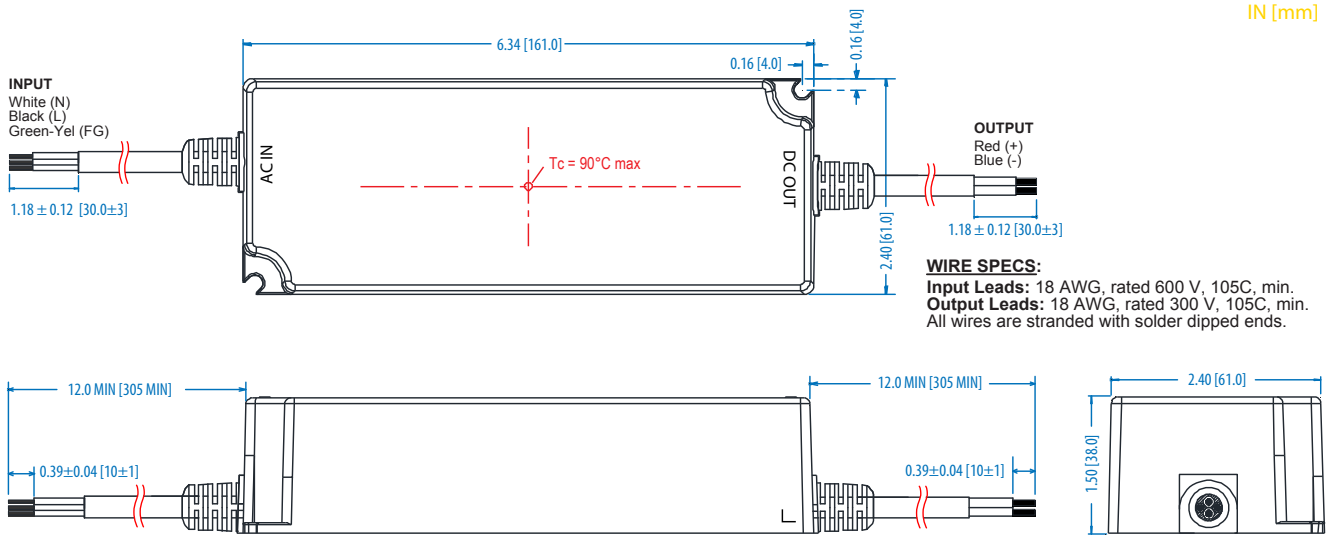
Note:
LED drivers are designed and intended to operate LED loads only. Non-LED loading may be outside the specified design limits of our LED drivers, and therefore cannot be covered by any warranty. If you desire to use our LED drivers to operate non-LED loads please contact us to discuss compatibility.

| Safety Certification | Standard |
|----------------------|---|
| UL/CUL | UL8750, UL1310 for UL Class 2 & CAN/CSA C22.2 No. 250.13, UL Type HL |
| Withstand Voltage | Input to Output: 3750 Vac |
| Isolation Resistance | Input to Output: >100 MΩ, 500VDC @ 25°C, 70 % RH |
| Dimming Circuit | Dimmable by Forward Phase (Incan) or Reverse Phase (ELV) dimmers. Dimmer must be properly loaded. |

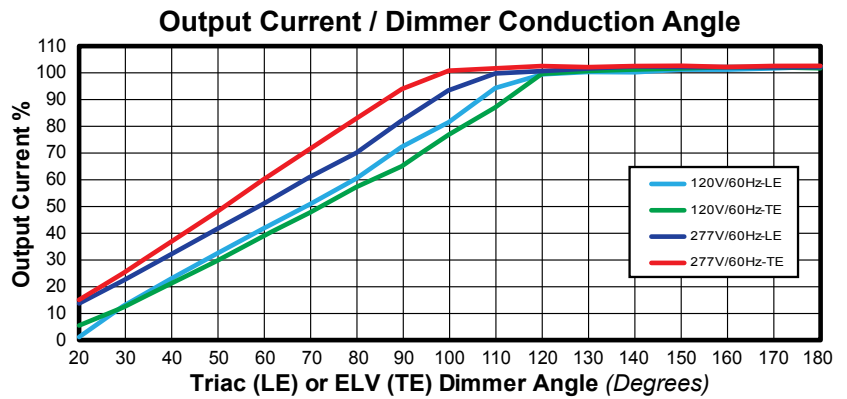
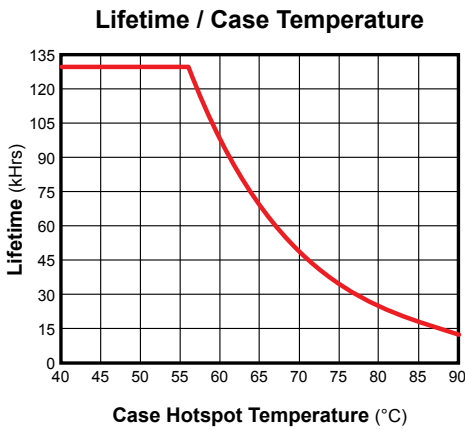
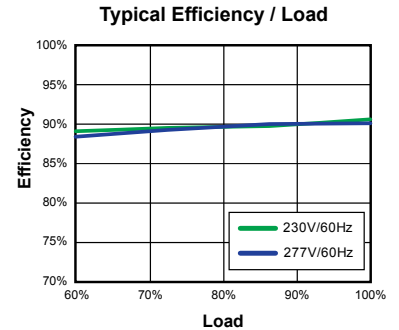
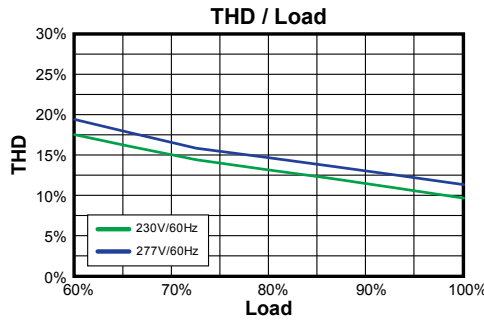
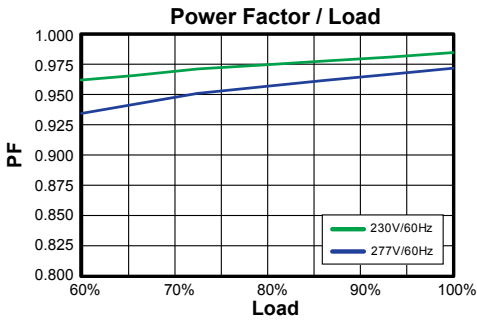
| EMC Standard | Notes |
|--------------------|--|
| FCC, 47CFR Part 15 | Class A |
| EN 61000-3-2 | Limits for harmonic current emissions Class C, ≥80% Rated Power |
| EN 61000-3-3 | Limitation of voltage changes, voltage fluctuations and flicker. |
| EN 61000-4-5 | Surge Immunity Test, 2 kV L-N, 4 kV L-FG & N-FG |
| Energy Star | ANSI/IEEE C62.41.1-2002 and ANSI/IEEE C62.41.2-2002 |



Dimensions



Power Characteristics



Note: The area under the life-temperature curve represents where the driver has highly reliable operation within specification. Driver performance may drift out of published specifications as the hours of operation exceed the curve at a given temperature. Higher operating temperatures increase the chances of a failure to function. Other electrical, mechanical and environmental factors affect driver lifetime but are not represented in this calculation.

UL Conditions of Acceptability

See website for additional information