Thomas Research Products

SSL Solutions Faster Than The Speed Of Light®

LED-25W Series– Line Voltage Dimmable

Constant Current LED Drivers
CCR Mode: ELV & Inc 100-10% Dimmable
Black Magic Thermal Advantage™ Plastic Housing

Total Power: 25 Watts
Input Voltage: 100 - 277 Vac
Outputs: Single from 12-72 Vdc
Isolated Between Primary and Secondary
Dust-proof and Water-resistant, IP66
NEMA4 Dry, Damp, Wet Location

Electrical Specifications

Input Voltage Range:	**120-230 Vac Nom. with dimmer, 100-277 Vac Nom. without dimmer**
Frequency:	**50/60 Hz Nom. (47-63 Hz Min/Max)**
Power Factor:	**>0.90 @ full load, 100V through 277V without dimmer**
Inrush Current:	**<10 Amps max @ 120Vac, cold start 25ºC**
Input Current:	**0.25 A max 120Vac 60Hz, max load**
Maximum Power:	**25W**
Current Regulation:	**± 5% Over input line variation**
Load Regulation:	**± 8%**
THD:	**≤ 20% @ full load**
Typical Efficiency	**84% at 120Vac**
Output Protection:	**Over-Voltage, Over-Current and Short Circuit Protection with Auto Recovery**

Environmental Specifications

Operating Temperature:	**-30ºC to +60ºC**
Maximum Case Temp.	**90°C**
Storage Temperature:	**-40ºC to +85ºC**
Humidity:	**5% to 95%**
Cooling:	**Convection**
Vibration Frequency:	**5-55 Hz/2g, 30 minutes**
Impact Resistance:	**1g/s**
MTBF:	**402,000 Hours @ full load per MIL-217F Notice 2**
EMC:	**FCC 47CFR Part 15 Class B compliant**
Weight:	**7.0 oz. (198 g)**

ELV Dimming Product Specifications

Model Number	Output Voltage Range *(Vdc)*	Output Current *(mA)*	Max. Output Power *(W)*	Typical Efficiency
LED25W-072-C0350-TE	36-72	350	25	86%
LED25W-048-C0520-TE	24-48	520	25	85%
LED25W-036-C0700-TE	18-36	700	25	84%
LED25W-024-C1040-TE	12-24	1040	25	83%

For use with electronic low voltage dimmers

INC Dimming Product Specifications

Model Number	Output Voltage Range *(Vdc)*	Output Current *(mA)*	Max. Output Power *(W)*	Typical Efficiency
LED25W-072-C0350-LE	36-72	350	25	86%
LED25W-048-C0520-LE	24-48	520	25	85%
LED25W-036-C0700-LE	18-36	700	25	84%
LED25W-024-C1040-LE	12-24	1040	25	83%

For use with standard incandescent dimmers

Class 2: US/Canada | US Only

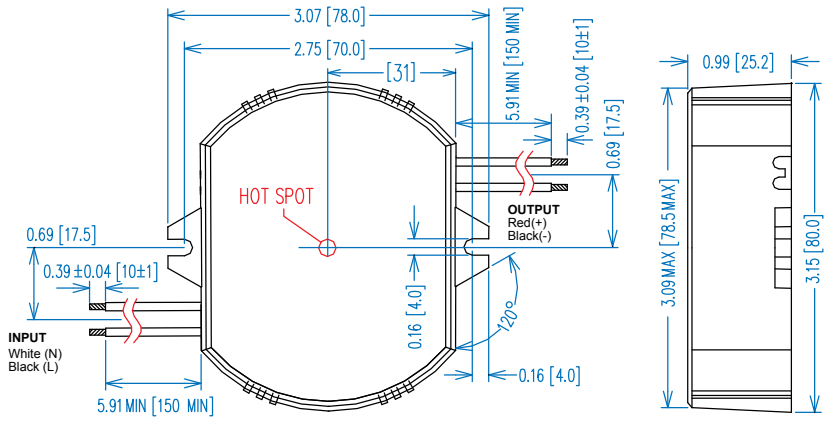
E332160

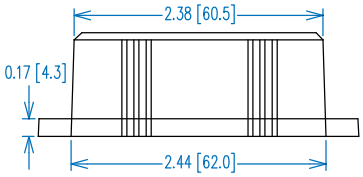
Note:
LED drivers are designed and intended to operate LED loads only. Non-LED loading may be outside the specified design limits of our LED driver, and therefore cannot covered by any warranty. If you desire to use our LED drivers to operate non-LED loads please contact us to discuss compatibility.

Specifications subject to change without notice.

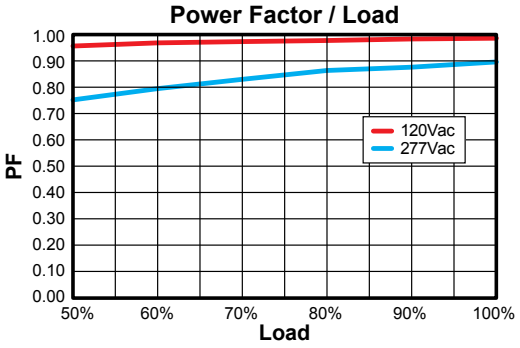
6-26-13

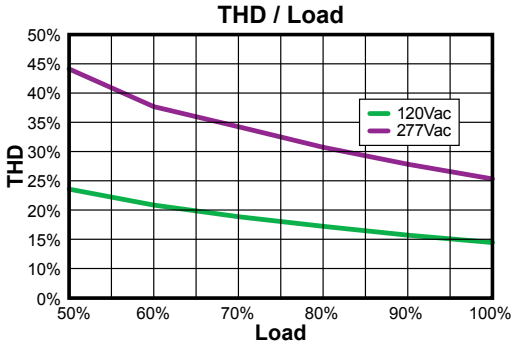
Dimensions - Inches (mm)



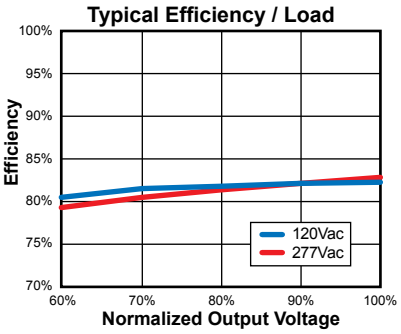


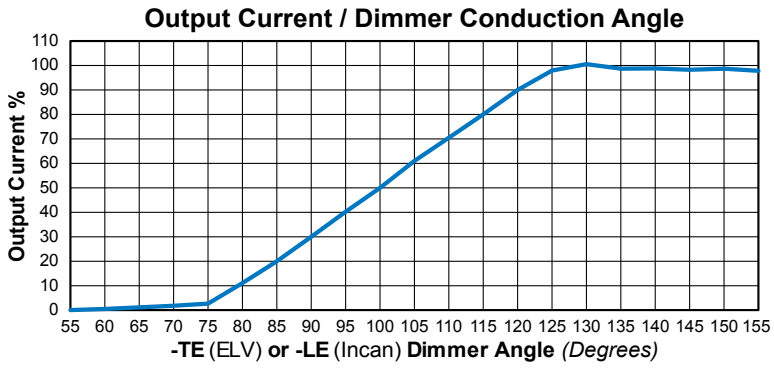
WIRE SPECS:
AC Input: UL1015 #18AWG
DC Output: UL1569 #18AWG





Safety & EMC Compliance	
UL/CUL	UL8750, CSA-C22.2
C E	EN 61347
FCC Part 15	Class B
EN61000-3-2	
EN61000-3-3	Class C





UL Conditions of Acceptability

See website for additional information