



TLED-25W Series

Switch Mode LED Driver

Deep Dimming Constant Current

Rev 8-9-2017



Electrical Specifications

Input Voltage Range:	120-277 Vac Nom. (108-305 V Min/Max)
Frequency:	50/60 Hz Nom. (47-63 Hz Min/Max)
Power Factor:	>0.90 @ full load, 120V through 277V
Inrush Current:	<50.0 Amps max @ 220~240Vac, Cold Start 25°C
Input Current:	0.30 Amps @ 108V (Max) 0.25 Amps @ 120V 0.15 Amps @ 277V
Maximum Power:	25.2W
Current Accuracy:	± 1% Over input line variation
Load Regulation:	± 3%
THD:	≤ 20% @ full load
Ripple Current:	20%
Leakage Current:	400 µA Typical
Start-up Time:	1 sec. typical

Protections

Over-voltage	Yes
Over-current	Yes
Short Circuit	Auto recovery

Environmental Specifications

Maximum Case Temp.	89°C
Minimum Starting Temp:	-30°C
UL Type TL Rating:	Class 2: 90/70°C
Storage Temperature:	-35°C to +85°C
Type TL Rating:	90°C/70°C
Humidity:	10% to 90%
Cooling:	Convection
Vibration Frequency:	5 to 55 Hz/2g, 30 minutes
Sound Rating:	Class A
Lifetime:	50,000 Hours, 75°C @ Tc point (see graph for details)
EMC:	FCC 47CFR Part 15 Class B compliant

- Performance Driven
- Flicker Free
- Deep Dimming, down to 1%
- Compatible with more dimming controls
- Total Power: 25 Watts
- Input Voltage: 120-277 Vac Nom.
- UL8750 and Class 2 Compliant, as noted
- IP66
- UL Dry & Damp Rated
- High Power Factor
- Black Magic Thermal Advantage™ Plastic Housing

Dimming Note:

0-10V & Resistance dimmable model includes an extra two wires +Purple/-Gray on the output side. Compatible with most quality 0-10V wall dimmers. See page 3 for additional specifications.

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.



Constant Current Model

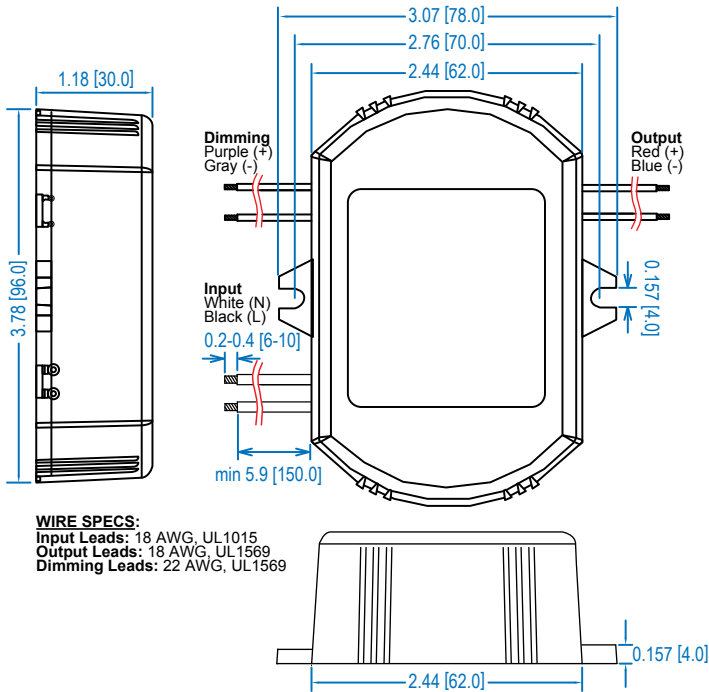
Model	Output Current (mA ±5%)	Output Voltage Range (Vdc)	Max Output Power (W)	Max Efficiency
TLED25W-036-C0700-D	700	12-36	25.2	83%

Class 2: US/Canada

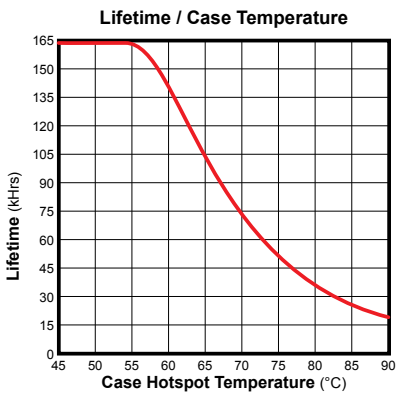
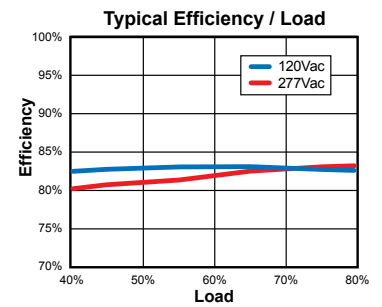
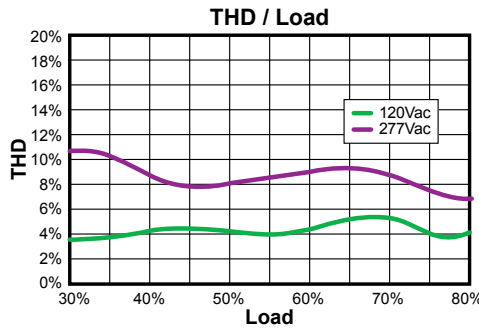
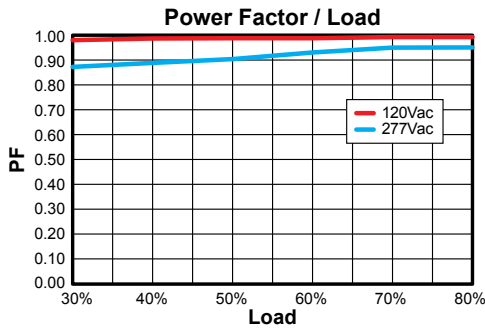
Safety Cert.	Standard
UL/CUL	UL8750, CSA-C22.2
CE	EN 61347-1, EN61347-2-13
EMC Standard	Notes
EN 55015	Conducted emission
IEEE 519	Harmonic current emissions
EN 61000-4-3	RFE Field Susceptibility test
EN 61000-4-4	Electrical Fast Transient
EN 61000-4-11	Voltage Dips
FCC Part 15	Class B



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

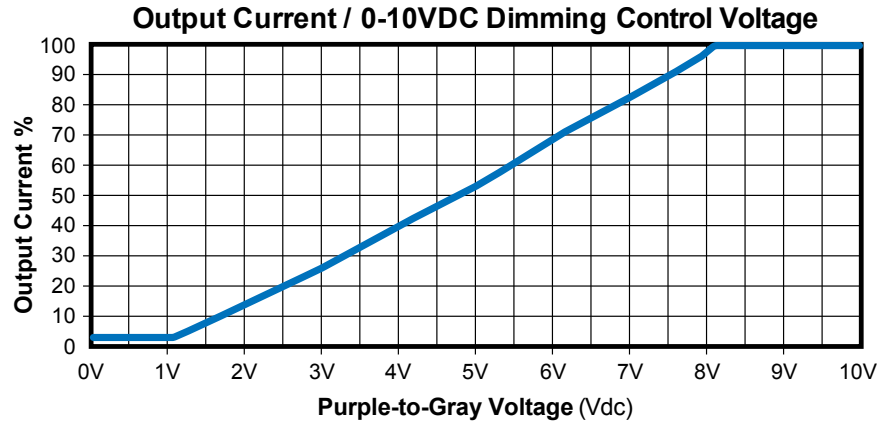
“-D” Option: 0-10VDC and Resistance Dimming

Parameters	Minimum	Typical	Maximum
Source Current out of 0-10V Purple Wire	0 mA	—	500µA
Absolute Voltage Range on 0-10V (+) Purple Wire	-2.0V	—	+15V

Typical Dimming Circuit



(Dimmer must be current-sink type control)



Notes:

1. 0-10V dimmable version comes with an extra two wires +Purple/-Gray on the output side.
2. Compatible with most 0-10V dimmers. Recommended dimmer is Leviton IP710 or equivalent
3. 0-10V dimmable version is not intended to dim below about 5% @ 0V or 10% @ 1.0V
4. 0-10V dimmable version output will be 100% with Purple/Gray open and minimum with Purple/Gray Shorted.