



LED75W-T5 Series

Flicker-free LED Drivers
Constant Current with Dimming
Aluminum Housing
Narrow cross-section fits T5-style ballast channels

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 @ >60% load, 120-277Vac
Inrush Current:	<60.0 Amps max @ 277Vac, cold start 25°C
Input Current:	0.82 Amps @ 120Vac, max load 0.72 Amps @ 277Vac, max load
Maximum Power:	75W
Current Regulation:	± 2% Over input line variation
Load Regulation:	± 4%
THD:	≤ 20% @ >50% load, 120-277Vac
Ripple & Noise: (Vpk-pk)	4% Vo max @ 20 MHz BW, Full load output in parallel with 0.1 µF ceramic & 10 µF Electrolytic
Ripple: (Ipk-pk)	5% Io max @ 20 MHz BW, Full load output in parallel with 0.1 µF ceramic & 10 µF Electrolytic. 120 Hz component (Flicker Free)
Start-up Time:	0.2S typical @ Full Load, 120Vac/60Hz (1S max)
Leakage Current:	700 µA typical
Output Protection:	Over-Voltage, Over-Current, and Short Circuit with auto-recovery

Environmental Specifications

Minimum Starting Temp:	-20°C
Maximum Case Temp.	90°C
UL Type TL Rating:	(See product table)
Storage Temperature:	-40°C to +85°C
Humidity:	5% to 90%
Cooling:	Convection
Vibration Frequency:	5 to 55 Hz/2g, 30 minutes
Sound Rating:	Class A
Impact Resistance:	1g/s
Lifetime:	50,000 hrs @ Tc=68°C (see graph for details)
MTBF:	232,000 Hours at full load and 25°C ambient conditions per MIL-217F Notice 2
EMC:	FCC 47CFR Part 15 Class B compliant
Weight:	14 oz. (400 g)



- Total Power: 75 Watts
- Input Voltage: 100-277 Vac Nom.
- UL Dry & Damp Location Rated
- High Power Factor

Constant Current Versions - Product Specifications

Model Number	Output Current (mA ±5%)	Output Voltage Range (Vdc)	Max. Output Power (W)	Type TL Rating	Max Efficiency
LED75WT5-214-C0350-D	350	107-214	75	90/79°C	90%
LED75WT5-108-C0700-D	700	54-108	75	90/66°C	89%
LED75WT5-054-C1400-D	1400	27-54	75	90/69°C	88%
LED75WT5-038-C2000-D	2000	19-38	76	90/70°C	87%

Class 2: US/Canada

Ordering Options:

-D: 0-10V & Resistance dimmable models dim 100-10%. Two extra connectors on the output side (+Purple/-Gray). Compatible with most quality 0-10V wall dimmers. See page 3.



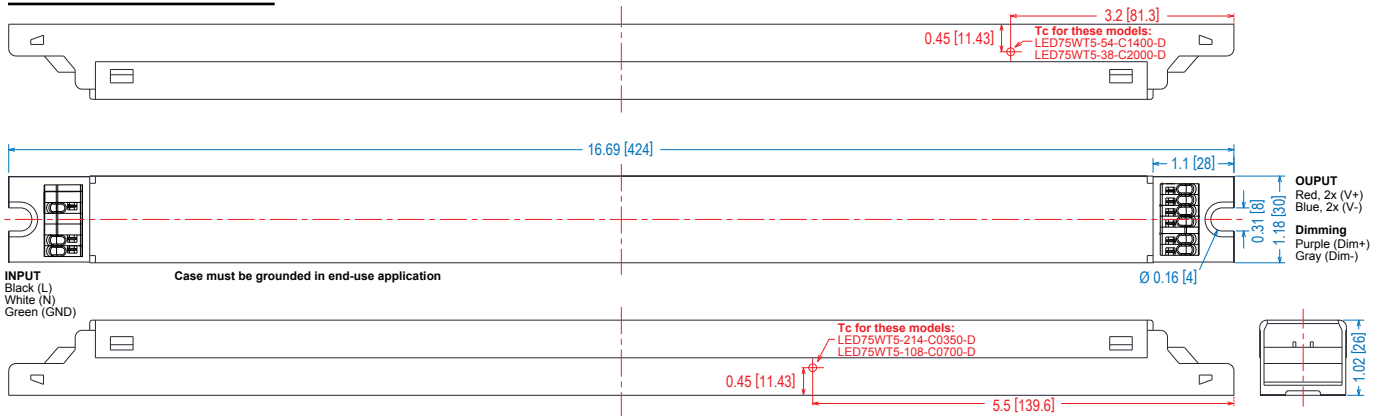
Note:

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 6-30-16

Dimensions - mm

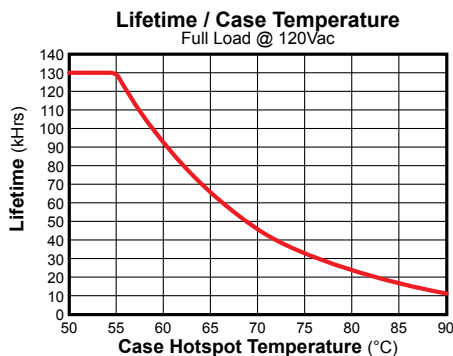
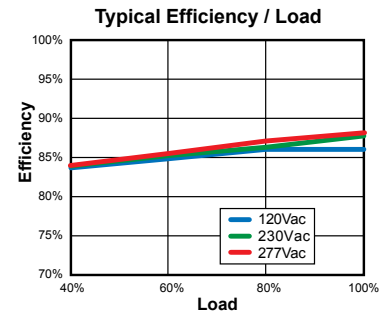
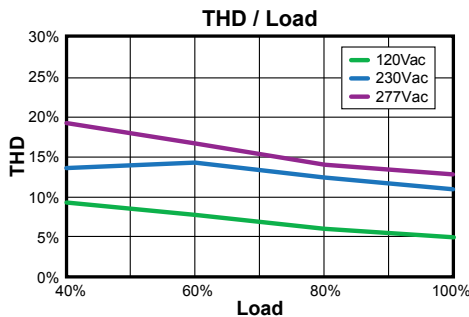
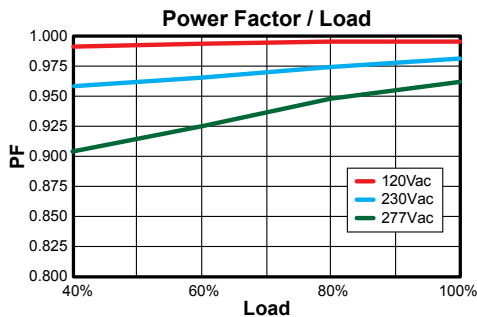
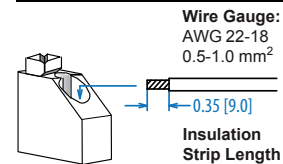


Connectors:

1. UL, KF250-3.5, WAGO 250-402 Push Pin, or equivalent.
2. Strip wire 0.35 inch [9mm].
3. For recommended maximum wiring distances at full load, please refer to this chart:

AWG	#20	#19	#18	#17	#16
Distance ft [m]	45.9 [14]	59 [18]	72.2 [22]	91.9 [28]	118.1 [36]

PUSH IN CONNECTORS



Safety and EMC Compliance	
UL/CUL	UL8750 & CAN/CSA-22.2 No. 250.13-12, UL1310/CSA-C22.2 No.223-M91, UL1012/CSA-C22.2 No.107.1 for Non-Class 2
CE	EN 61347-1, EN61347-2-13
EMC Standard	Notes
FCC, 47CFR Part 15	Class B
EN 55015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment.
EN 61000-3-2	Part 3-2: Limits for harmonic current emissions Class C, >80% Rated Power
EN 61000-3-3	Part 3-3: Limitation of voltage changes, voltage fluctuations and flicker.
EN 61000-4-5	Part 4-5: Surge Immunity test, 2 kV L-N, 4 kV L-G & N-G
Energy Star	ANSI/IEEE C62.41. 1-2002 and ANSI/IEEE C62.41. 2-2002

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)

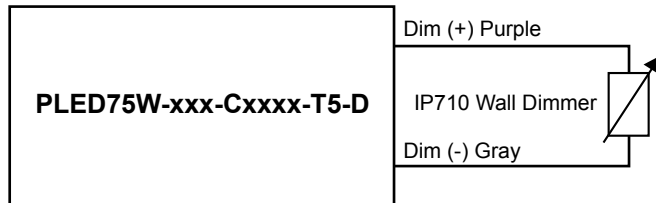
UL Conditions of Acceptability

See website for additional information

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

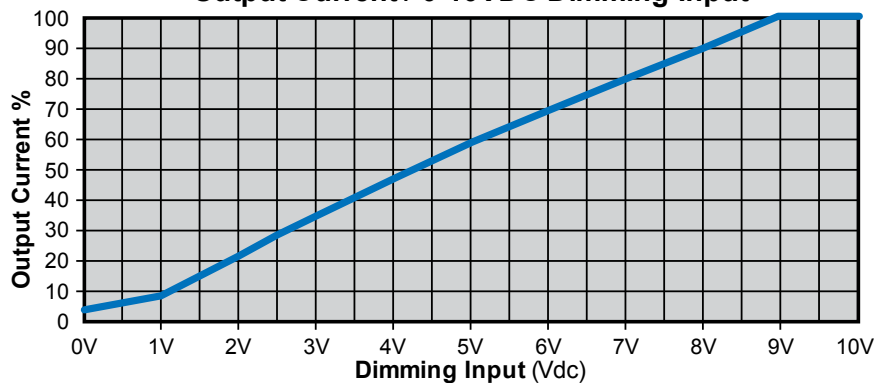
Parameters	Minimum	Typical	Maximum
Absolute Voltage Range on 0-10V (+) Purple	-2.0V	—	+15V
Source Current out of 0-10V Purple	0mA	—	2.0mA

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 connectors +Purple/-Gray on the output side.
2. Compatible with most 0-10V Wall Slide dimmers and direct 0-10V analog signal. Recommended dimmer is Leviton IP710 or equivalent
3. 0-10V dimmable version is not intended to dim below about 2% @ 0V or 10% @ 1.0V
4. 0-10V dimmable version output will be 100% with Purple/Gray open and minimum with Purple/Gray Shorted.