



LED75W-T5 Series

Flicker-free Linear LED Drivers



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 (Max):	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:	0.25 typical @ Full Load, 120Vac/60Hz (1S max)
Leakage Current:	700 µA typical

Protections

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

Environmental Specifications

Max Case Life Temp: (5 year warranty)	68°C
Maximum Case Temp (UL):	90°C
Minimum Starting Temp:	-20°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)

Dimming Information:

0-10V & Resistance dimmable models include an extra two wires +Purple/-Gray on the output side. "D" 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.



- Total Power: 75 Watts
- Input Voltage: 100-277 Vac Nom.
- UL Dry & Damp Location Rated
- High Power Factor
- Constant Current with Dimming
- Aluminum Housing
- Narrow cross-section fits T5-style ballast channels

Constant Current Models

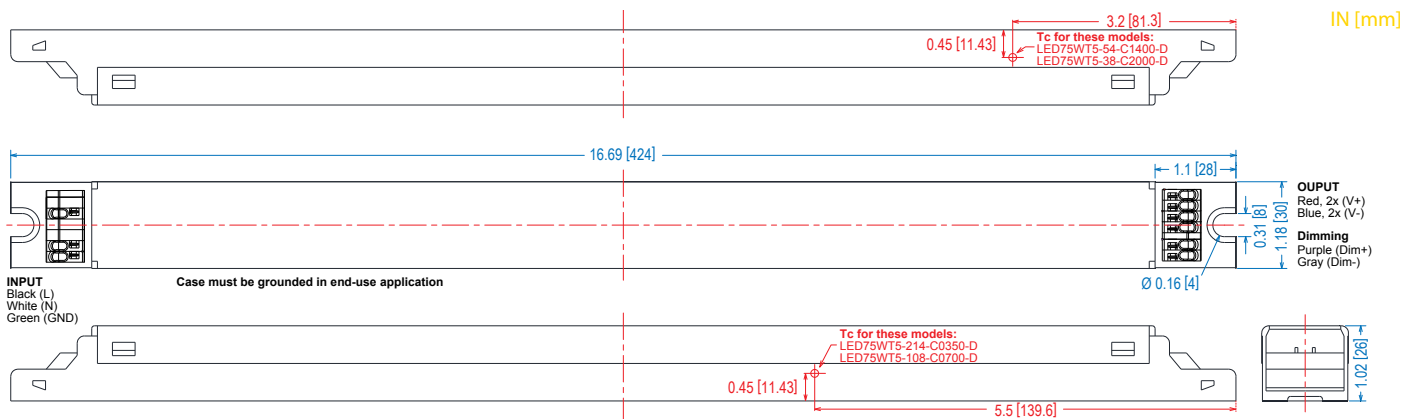
Model	Output Current (mA ±5%)	Output Voltage Range (Vdc)	Max. Output Power (W)	Type TL Rating	Max Efficiency
LED75WT5-214-C0350-D	350	107-214	75	90/79°C	90%
LED75WT5-108-C0700-D	700	54-108	75	90/66°C	89%
LED75WT5-054-C1400-D	1400	27-54	75	90/69°C	88%
LED75WT5-038-C2000-D	2000	19-38	76	90/70°C	87%

Class 2: US/Canada

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	ANS/IEEE C62.41. 1-2002 and ANS/IEEE C62.41. 2-2002

Dimensions

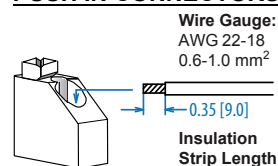


Connectors:

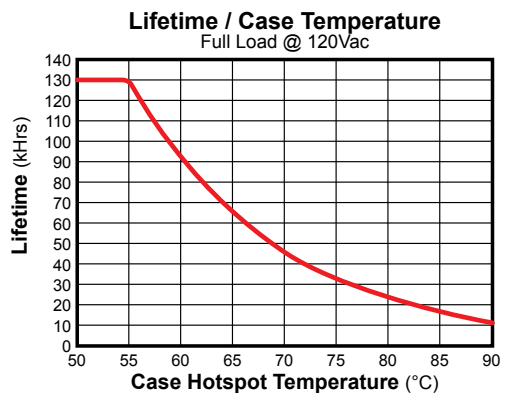
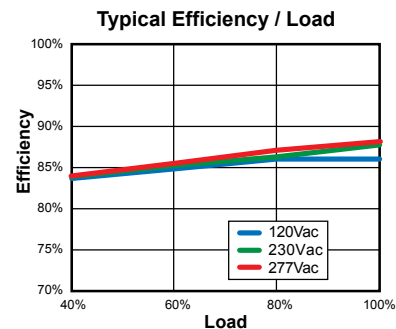
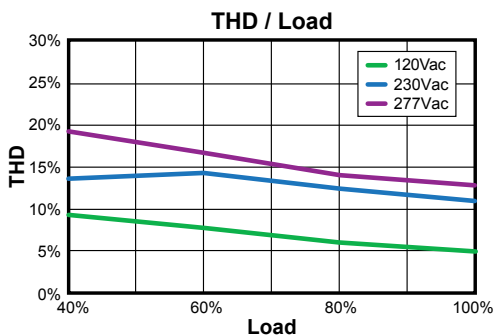
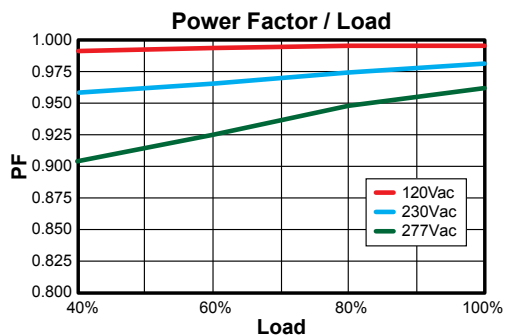
- UL, KF250-3.5, WAGO 250-402 Push Pin, or equivalent.
- Strip wire 0.35 inch [9mm].
- For recommended maximum wiring distances at full load, please refer to this chart:

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



Power Characteristics



UL Conditions of Acceptability

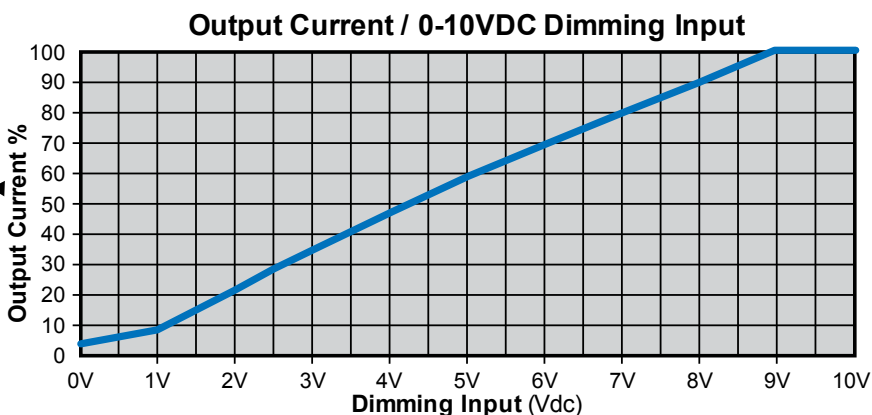
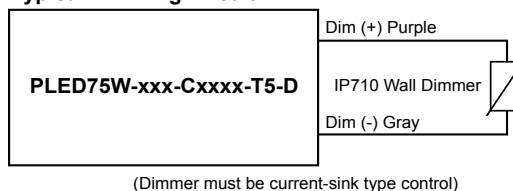
See website for additional information

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.

“-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



Notes:

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