

LED75W-T5 Series

Flicker-free Linear LED Drivers



Electrical Specif	ications			
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: (lpk-pk)	5% Io max @ 20 MHz BW, Full load output in parallel with 0.1 μF ceramic & 10 μF Elec- trolytic. 120 Hz component (Flicker Free)			
Start-up Time:	0.2S 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			
EIVIC.				

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

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

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		

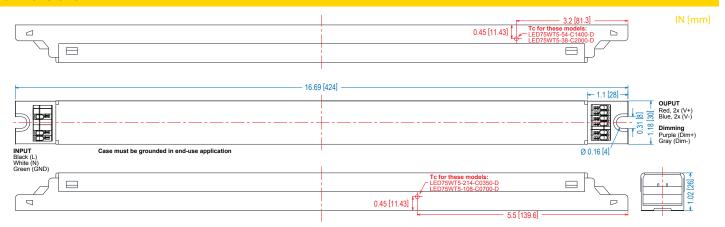


LED75W-T5 Series



Flicker-free Linear LED Drivers

Dimensions

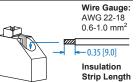


Connectors:

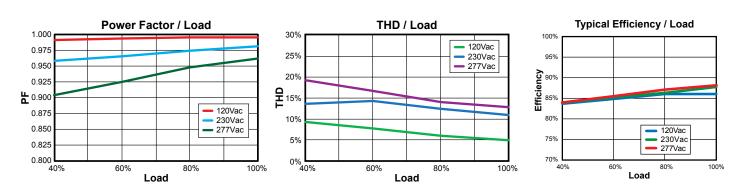
- 1. UL, KF250-3.5, WAGO 250-402 Push Pin, or equivalent.
- 2. Strip wire 0.35 inch [9mm].
- 3. For recommended maximum wiring distances at full load, please refer to this chart:

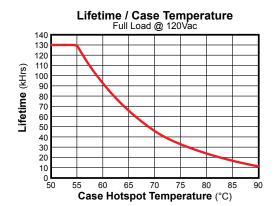
AWG	#20	#19	#18	#17	#16
Distance ft [m]	45.9 [14]	59 [18]	72.2 [22]	91.9 [28]	118.1 [36]

PUSH IN CONNECTORS



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.





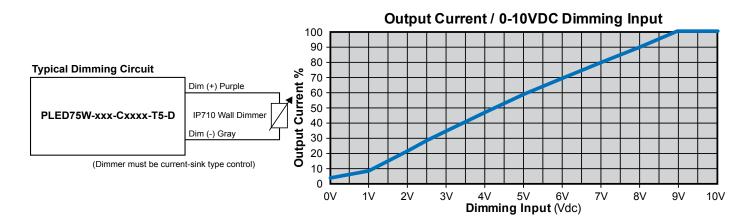
LED75W-T5 Series



Flicker-free Linear LED Drivers

"-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



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.