

PLED75W Series-Fixed Output & Dimmable

Flicker-Free LED Drivers

Constant Current & Constant Voltage with Isolation Black Magic Thermal Advantage™ Aluminum Housing

Electrical Specifications

Input Voltage Range: 100-277 Vac Nom. (90-305 V Min/Max)

Input Over-Voltage: Can endure 320Vac for 48 Hrs, 350Vac for 2 Hrs

50/60 Hz Nom. (47-63 Hz Min/Max) Frequency: Power Factor: >0.90 @ 75-100% load, 100-277Vac

Inrush Current: 50A max @ 277V, 50% lpeak = 750µsec, cold start 25°C

Input Current: 1.00 Amps max

Maximum Power:

Current Regulation: ± 2% Over input line variation

Load Regulation:

THD. < 20% @ 60-100% load, 100-277Vac

Ripple & Noise: 5% Vo max @ 20 MHz BW, Full load output in parallel with 0.1 μF ceramic & 10 μF Electrolytic (Vpk-pk)

Ripple: 5% lo max @ 20 MHz BW, Full load output (lpk-pk) in parallel with 0.1 μF ceramic & 10 $\mu F \dot{E} lectrolytic.$

120 Hz component (Flicker Free)

Start-up Time: 200mS typical @ Full Load, 120Vac/60Hz (1000mS max)

0.28 mA max @ 120Vac, 0.78 mA max @ 277Vac Leakage Current:

Hold Up Time: 40mS typical @ Full Load, 277Vac Over-Voltage, Over-Current, and Short Circuit Protection **Output Protection:**

Environmental Specifications

Minimum Starting Temp: Maximum Case Temp. 90°C

Class 2: 86/63°C; Non-Class 2: 90/81°C **UL Type TL Rating:**

Storage Temperature: -40°C to +85°C **Humidity:** 5% to 95% Cooling: Convection

Vibration Frequency: 5 to 55 Hz/2g, 30 minutes

Sound Rating: Class A Impact Resistance: 1a/s

MTBF: 474,000 Hours at full load and 40°C ambient conditions per MIL-217F Notice 2

FCC 47CFR Part 15 Class B compliant EMC:

Weight: 19 oz. (538 g)

Ordering Options:

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

-D3: 3-wire dimmable models dim 100-10%. Three extra wires on the output side (Yellow/Purple/Gray). Compatible with potentiometer dimming. See page 3.



- · Smallest Footprint Driver for this wattage
- Total Power: 75 Watts
- Input Voltage: 100-277 Vac Nom. UL Dry & Damp Location Rated
- IP66 & NEMA6
- · UL Type HL Rated for Hazardous Locations
- UL Sign Components Manual (S.A.M. Models)

Constant Current Versions - Product Specifications					
Model Number	Output Current (mA ±3%)	Output Voltage Range (Vdc)	Max. Output Power (W)	Max Efficiency	
PLED75W-214-C0350-XX	350	72-214	75	92%	
PLED75W-166-C0450-XX	450	56-166	75	92%	
PLED75W-108-C0530-XX	530	36-108	57.2	92%	
PLED75W-108-C0700-XX	700	36-108	75	92%	
PLED75W-072-C1050-XX	1050	24-72	75	91%	
PLED75W-054-C1400-XX	1400	18-54	75	91%	
PLED75W-048-C1560-XX	1560	16-48	75	90%	
PLED75W-042-C1790-XX	1790	14-42	75	89%	
PLED75W-036-C2100-XX	2100	12-36	75	89%	
PLED75W-027-C2800-XX	2800	9-27	75	88%	
PLED75W-024-C3130-XX	3130	8-24	75	88%	
PLED75W-020-C3750-XX	3750	7-20	75	87%	
PLED75W-015-C5000-XX	5000	5-15	75	86%	
PLED75W-012-C6250-XX	6250	4-12	75	86%	

-XX indicates dimming options are available. See options at left. Blank = fixed current output

Constant Voltage Versions - Product Specifications						
Model Number	Output Voltage (Vdc ±5%)	Output Current Range (mA)	Max. Output Power (W)	Max Efficiency		
PLED75W-012 •	12	1563-6250	75	86%		
PLED75W-015	15	1250-5000	75	86%		
PLED75W-020	20	938-3750	75	87%		
PLED75W-024 •	24	783-3130	75	88%		
PLED75W-027	27	700-2800	75	88%		
PLED75W-036	36	525-2100	75	89%		
PLED75W-042	42	448-1790	75	89%		
PLED75W-048	48	390-1560	75	90%		
PLED75W-054	54	350-1400	75	91%		
PLED75W-072	72	263-1050	75	91%		
PLED75W-108	108	175-700	75	92%		
PLED75W-166	166	113-450	75	92%		
PLED75W-214	214	88-350	75	92%		

Indicates S.A.M.

Class 2: US/Canada



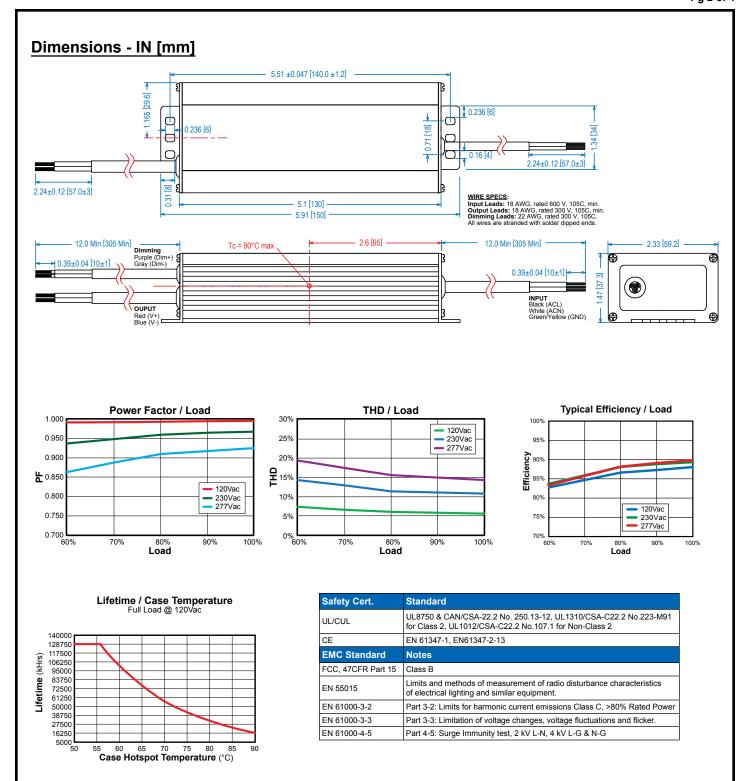
LED drivers are designed and intended to operate LED loads only. Non-LED loading may be outside the specified design limits of our LED drivers, and therefore cannot be covered by any warranty. If you desire to use our LED drivers to operate non-LED loads please contact us to discuss compatibility.

Specifications subject to change without notice.

Rev 10-12-16



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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

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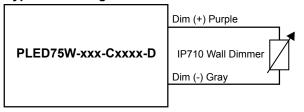


SSL Solutions Faster Than The Speed Of Light®

"-D" and "-D3" Options: 0-10VDC and Resistance Dimming

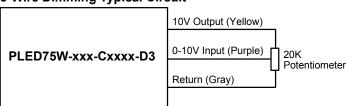
Parameters	Minimum	Typical	Maximum
10V Output, Yellow Wire	9.2V	10.0V	10.8V
Source Current out of Aux Yellow Wire			10mA
Absolute Voltage Range on 0-10V (+) Purple Wire	-2.0V	_	+15V
Source Current out of 0-10V Purple Wire	0mA	_	2mA

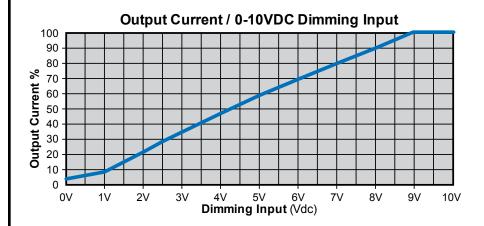
Typical Dimming Circuit



(Dimmer must be current-sink type control)

3-Wire Dimming Typical Circuit





- 1. 0-10V dimmable version comes with an extra two wires +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 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.
- 5. 3-wire dimmable drivers come with three wires on the output side (Yellow/Purple/Gray).