

SSL Solutions Faster Than The Speed Of Light®

PLED-75W Series – Fixed Output & Dimmable

Switch Mode LED Drivers

Constant Current & Constant Voltage with Isolation Black Magic Thermal Advantage™ Aluminum Housing **Total Power: 75 Watts**

Input Voltage: 100-277 Vac Nom. Outputs: Single from 4-214 Vdc **UL Dry & Damp Location Rated**

IP66. NEMA6 **High Power Factor**

Electrical Specifications

Input Voltage Range: 100-277 Vac Nom. (90-305 V Min/Max) Frequency: 50/60 Hz Nom. (47-63 Hz Min/Max) Power Factor: >0.90 @ full load, 100V through 277V Inrush Current: <30.0 Amps max @ 230 Vac, cold start 25°C

Input Current: 1.00 Amps max

Maximum Power: 75W

Current Regulation: ± 1% Over input line variation

Load Regulation:

≤ 20% @ full load Leakage Current: 400 µA Typical **Hold Up Time:**

Output Protection: Over-Voltage, Over-Current, and Short Circuit with auto-recovery

Environmental Specifications

-30°C to +65°C Operating Temperature:

Maximum Case Temp.

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

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

Impact Resistance:

Ordering Options:

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

0-10V & Resistance dimmable version comes with an extra two wires +Purple/-Gray on

3-wire dimmable model comes with three extra wires Yellow/Purple/Gray on the output

PD PWM version is PWM Dimmable via a positive 10% to 100% Duty Cycle, 200Hz to

the output side. 0-10V Dimming is compatible with most quality 0-10V wall dimmers.

EMC: FCC 47CFR Part 15 Class B compliant

side. 3-wire dimming is compatible with potentiometer dimming.

1KHz, 0-10V Pulse. See page 4 for additional specifications.

Weight: 19 oz. (538 g)

See page 3 for additional specifications.

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-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

Output Current **Output Voltage** Max. Output **Model Number** (Vdc ±5%) Range (mA) Power (W) PLED75W-012 1563-6250 86% PLED75W-015 15 1250-5000 75 86% PLED75W-020 20 938-3750 75 87% -PD: PWM Dimmable version comes with an extra two wires +Purple/-Gray on the output side. PLED75W-024 24 75 783-3130 88% PLED75W-027 27 700-2800 75 88% PLED75W-036 36 525-2100 75 89% PLED75W-042 42 448-1790 75 89% PLED75W-048 90% 48 390-1560 75 PLED75W-054 54 350-1400 75 91% PLED75W-072 72 263-1050 75 91% PLED75W-108 92% 108 175-700 75 PI FD75W-166 166 113-450 75 92% PLED75W-214 214 88-350 75 92%

US Only Class 2: US/Canada

Constant Voltage Versions - Product Specifications

LED drivers are designed and intended to operate LED loads only. Non-LED loading may be outside the specified design limits of our LED driver, 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.

12-05-13

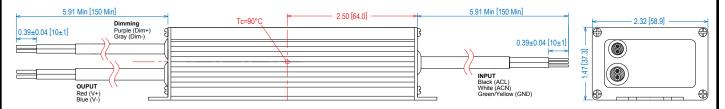


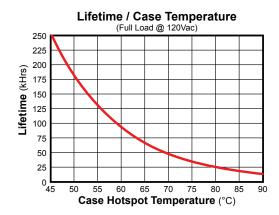
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Dimensions - mm







Safety and EMC Compliance
UL8750
CSA-C22.2
EN61347
EN61000-3-2
EN61000-3-3 Class C
FCC 47CFR Part 15 Class B compliant

UL Conditions of Acceptability

See website for additional information



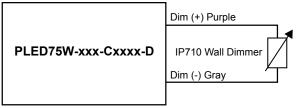
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"-D" and "-D3" Options: 0-10VDC and Resistance Dimming

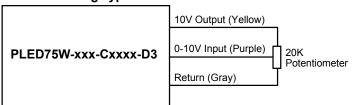
Parameters	Minimum	Typical	Maximum
Source Current out of 0-10V Purple Wire	0mA	_	2mA
Absolute Voltage Range on 0-10V (+) Purple Wire	-2.0V	_	+15V

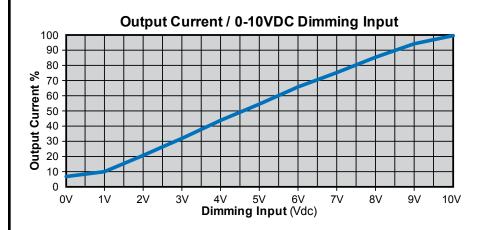
Typical Dimming Circuit



(Dimmer must be current-sink type control)

3-Wire Dimming Typical Circuit





Notes

- 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).



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"-PD" Option: PWM Dimming

Parameters	Minimum	Typical	Maximum
Absolute Maximum Voltage Range on PWM Input (Purple Wire)	-2.0V	10V	+28V
Input LOW Level Voltage Range (Purple Wire)	-2.0	0V	+7.5V
Input HIGH Level Voltage Range (Purple Wire)	+9.0	10V	28V
Sink Current into PWM Input (Purple Wire)	0mA	_	1.2mA
PWM Input Signal Frequency	200Hz	_	1000Hz
PWM Input Signal Positive Duty Cycle	0%	10-90%	100%

PWM Positive Dimming Typical Circuit



Output Current / Positive Duty Cycle



Notes

- 1. PWM Dimmable version comes with an extra 2 wires +Purple/-Gray on the output side.
- 2. Below 10% Duty cycle proper dimming operation is not assured. Unit is not intended to turn off at <10% Duty Cycle.
- 3. PWM dimmable version output will be 100% with Purple/Gray open and minimum with Purple/Gray Shorted.