

SSL Solutions Faster Than The Speed Of Light

LED-40W Series—Fixed Output and Dimmable

Switch Mode LED Drivers

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

Total Power: 40 Watts Input Voltage: 100-277 Vac Outputs: Single from 3-114 Vdc Indoor or Outdoor Applications, IP66

High Power Factor

UL8750 and Class 2 Compliant, as noted

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: <20.0 Amps max @ 230 Vac, cold start 25°C

Input Current: 0.40 Amps max

Maximum Power: 40W

Current Accuracy: ± 1% Over input line variation

Load Regulation:

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

Output Over-Voltage, Output Over-Current, and Output Short Circuit Protection with Auto Recovery Protection:

Environmental Specifications

Maximum Case Temp.

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

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

MTBF: 482,000 Hours at full load and 40°C ambient conditions per MIL-217F Notice 2

EMC: FCC 47CFR Part 15 Class B compliant



Constant Current - Product Specifications					
Model Number	Output Current (mA ±5%)	Output Voltage Range (Vdc)	Max Output Power (W)	Max Efficiency	
LED40W-114-C0350-XX	350	38-114	40	87%	
LED40W-100-C0400-XX	400	33-100	40	87%	
LED40W-89-C0450-XX	450	30-89	40	87%	
LED40W-54-C0700-XX	700	18-54	37.8	86%	
LED40W-48-C0830-XX	830	16-48	40	86%	
LED40W-45-C0900-XX	900	15-45	40	86%	
LED40W-36-C1100-XX	1100	12-36	40	86%	
LED40W-30-C1300-XX	1300	10-30	39.0	86%	
LED40W-24-C1400-XX	1400	8-24	33.6	86%	
LED40W-24-C1670-XX	1670	8-24	40	86%	
LED40W-22-C1820-XX	1820	7-22	40	86%	
LED40W-18-C2220-XX	2200	6-18	40	85%	
LED40W-15-C2680-XX	2680	5-15	40	85%	
LED40W-13-C3080-XX	3080	4-13	40	85%	
LED40W-12-C3330-XX	3330	4-12	40	84%	
LED40W-10-C4000-XX	4000	3-10	40	84%	
LED40W-09-C4450-XX	4450	3-9	40	83%	

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

Constant Voltage - Product Specifications

Ordering Options:

- 2-wire dimmable model dims 100% to 10%. Two extra wires included on the output side: +Purple/-Gray. This model is offers 0-10V & Resistance dimming, compatible with most quality 0-10V dimmers. See page 3.
- -D3: 3-wire dimmable model dims 100% to 10%. Three extra wires included on the output side: Yellow/Purple/Gray. This model is suitable for potentiometer dimming. See page 3.
- -PD: PWM dimmable version dims 100% to 10%. Two extra wires included on the output side: +Purple/-Gray. This model is PWM Dimmable via a positive duty cycle, 200Hz to 1KHz, 0-10V Pulse. See page 4.



Model Number	Output Voltage (Vdc ±5%)	Output Current Range (mA)	Max Output Power (W)	Max Efficiency
LED40W-114	114	88-350	40	87%
LED40W-100	100	100-400	40	87%
LED40W-89	89	113-450	40	87%
LED40W-54	54	175-700	40	86%
LED40W-48	48	208-830	40	86%
LED40W-45	45	225-900	40	86%
LED40W-36	36	275-1100	40	86%
LED40W-30	30	325-1300	40	86%
LED40W-24	24	418-1670	40	86%
LED40W-22	22	455-1820	40	86%
LED40W-18	18	550-2200	40	85%
LED40W-15	15	670-2680	40	85%
LED40W-13	13	770-3080	40	85%
LED40W-12	12	833-3330	40	84%
LED40W-10	10	1000-4000	40	84%
LED40W-09	9	1112-4450	40	83%
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Specifications subject to change without notice.

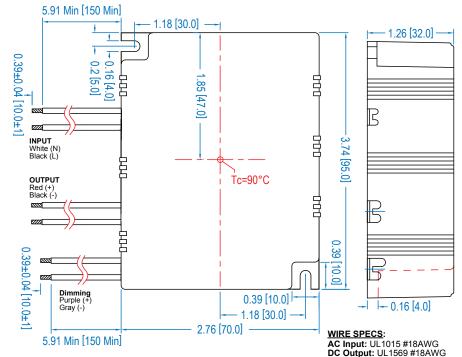
Class 2: US/Canada US Only



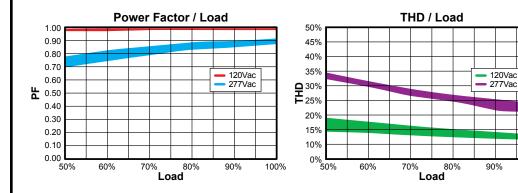
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Dimensions - Inches (mm)



AC Input: UL1015 #18AWG DC Output: UL1569 #18AWG Dimming Control: UL1569 #22AWG



UL Conditions of Acceptability

100%

See website for additional information



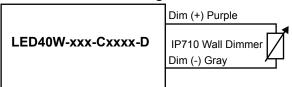
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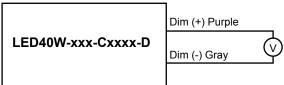
"-D" and "-D3" Option: 0-10VDC and Resistance Dimming

Parameters	Minimum	Typical	Maximum
Source Current out of 0-10V Purple Wire	0 mA		10 mA
Absolute Voltage Range on 0-10V (+) Purple Wire	-2.0 V		+15 V
Sink Current into 0-10V Purple Wire	0 mA		1.2 mA

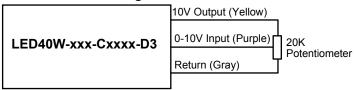
"-D" Resistance Dimming Circuit



"-D" 0-10V Analog Dimming Circuit



"-D3" 3-Wire Dimming Circuit



Output Current / 0-10VDC Dimming Input 90 80 70 60 50 40 90 0V 1V 2V 3V 4V 5V 6V 7V 8V 9V 10V Dimming Input Vdc

Notes:

- 1. D dimmable version comes with an extra two wires on the output side: +Purple/-Gray.
- 2. Compatible with most 0-10V dimmers. Recommended dimmer is Leviton IP710 or equivalent.
- 3. D & D3 dimmable versions are not intended to dim below about 5% @ 0V or 10% @ 1.0V.
- 4. Output will be 100% with Purple/Gray open and minimum with Purple/Gray Shorted.



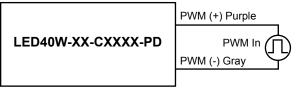
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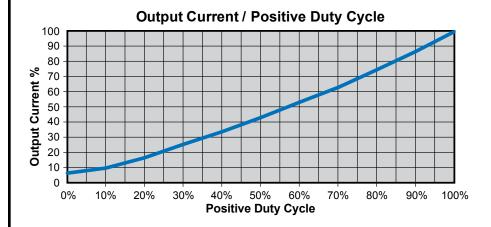
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"-PD" Option: PWM Dimming

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%

"-PD" PWM Positive Dimming Typical Circuit





Notes:

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