SSL Solutions Faster Than The Speed Of Light®

Total Power: 25 Watts Input Voltage: 90-305 Vac

High Power Factor

IP66 Compliant

Outputs: Single from 4-72 Vdc Indoor or Outdoor Applications, IP66

UL8750 and Class 2 Compliant, as noted

LED-25W Series– Fixed Output and Dimmable Switch Mode LED Drivers Constant Current & Constant Voltage with Isolation Black Magic Thermal Advantage™ Plastic Housing

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: <15.0 Amps max @ 230 Vac, cold start 25°C Input Current: 0.25 Amps max @ 120 Vac Maximum Power: 25W Current Accuracy: ± 1% Over input line variation Load Regulation: ± 3% THD: ≤ 20% @ full load Leakage Current: 400 μA Typical Hold Up Time: Half Cycle Protection: Output Over-Voltage, Output Over-Current, and Output Short Circuit Protection with Auto Recovery		
Power Factor: >0.90 @ full load, 100V through 277V Inrush Current: <15.0 Amps max @ 230 Vac, cold start 25°C	Input Voltage Range:	100-277 Vac Nom. (90-305 V Min/Max)
Inrush Current: <15.0 Amps max @ 230 Vac, cold start 25°C	Frequency:	50/60 Hz Nom. (47-63 Hz Min/Max)
Input Current: 0.25 Amps max @ 120 Vac Maximum Power: 25W Current Accuracy: ± 1% Over input line variation Load Regulation: ± 3% THD: ≤ 20% @ full load Leakage Current: 400 μA Typical Hold Up Time: Half Cycle Protection: Output Over-Voltage, Output Over-Current, and	Power Factor:	>0.90 @ full load, 100V through 277V
Maximum Power: 25W Current Accuracy: ± 1% Over input line variation Load Regulation: ± 3% THD: ≤ 20% @ full load Leakage Current: 400 μA Typical Hold Up Time: Half Cycle Protection: Output Over-Voltage, Output Over-Current, and	Inrush Current:	<15.0 Amps max @ 230 Vac, cold start 25°C
Current Accuracy: ± 1% Over input line variation Load Regulation: ± 3% THD: ≤ 20% @ full load Leakage Current: 400 μA Typical Hold Up Time: Half Cycle Protection: Output Over-Voltage, Output Over-Current, and	Input Current:	0.25 Amps max @ 120 Vac
Load Regulation: ± 3% THD: ≤ 20% @ full load Leakage Current: 400 μA Typical Hold Up Time: Half Cycle Protection: Output Over-Voltage, Output Over-Current, and	Maximum Power:	25W
THD: ≤ 20% @ full load Leakage Current: 400 μA Typical Hold Up Time: Half Cycle Protection: Output Over-Voltage, Output Over-Current, and	Current Accuracy:	± 1% Over input line variation
Leakage Current: 400 μA Typical Hold Up Time: Half Cycle Protection: Output Over-Voltage, Output Over-Current, and	Load Regulation:	± 3%
Hold Up Time: Half Cycle Protection: Output Over-Voltage, Output Over-Current, and	THD:	≤ 20% @ full load
Protection: Output Over-Voltage, Output Over-Current, and	Leakage Current:	400 μA Typical
	Hold Up Time:	Half Cycle
	Protection:	

Environmental Specifications

Operating Temperature:	-30°C to +60°C
Maximum Case Temp.	90°C
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
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

Ordering Options:

- -D: 0-10V & Resistance dimmable version comes with an extra two wires +Purple/-Gray on the output side. "-D" 0-10V Dimming is compatible with most quality 0-10V wall dimmers. See page 3 for additional specifications.
- -PD: PWM Dimmable version comes with an extra two wires +Purple/-Gray on the output side. "-PD" version is PWM Dimmable via a positive 10% to 100% Duty Cycle, 200Hz to 1KHz, 0-10V Pulse. See page 4 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 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.



Constant Current - Product Specifications				
Model Number	Output Current (mA ±3%)	Output Voltage Range (Vdc)	Max. Output Power (W)	Typical Efficiency
LED25W-072-C0350-XX	350	24-72	25	86%
LED25W-040-C0350-XX	350	13-40	14	84%
LED25W-028-C0350-XX	350	10-28	9.8	83%
LED25W-062-C0400-XX	400	21-62	25	85%
LED25W-056-C0450-XX	450	19-56	25	84%
LED25W-040-C0500-XX	500	13-40	20	84%
LED25W-040-C0620-XX	620	13-40	25	84%
LED25W-036-C0700-XX	700	12-36	25	84%
LED25W-028-C0850-XX	850	10-28	25	83%
LED25W-024-C1040-XX	1040	8-24	25	83%
LED25W-020-C1250-XX	1250	7-20	25	83%
LED25W-018-C1400-XX	1400	6-18	25	82%
LED25W-016-C1560-XX	1560	6-16	25	82%
LED25W-014-C1750-XX	1750	5-14	25	82%
LED25W-012-C2080-XX	2080	4-12	25	81%

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

Constant Voltage - Product Specifications				
Model Number	Output Voltage (Vdc ±5%)	Output Current Range (mA)	Max. Output Power (W)	Typical Efficiency
LED25W-012	12	520-2080	25	81%
LED25W-014	14	438-1750	25	82%
LED25W-016	16	390-1560	25	82%
LED25W-018	18	360-1400	25	82%
LED25W-020	20	313-1250	25	83%
LED25W-024	24	260-1040	25	83%
LED25W-028	28	213-850	25	83%
LED25W-036	36	175-700	25	84%
LED25W-040	40	155-620	25	84%
LED25W-056	56	113-450	25	84%
LED25W-062	62	100-400	25	85%
LED25W-072	72	88-350	25	86%

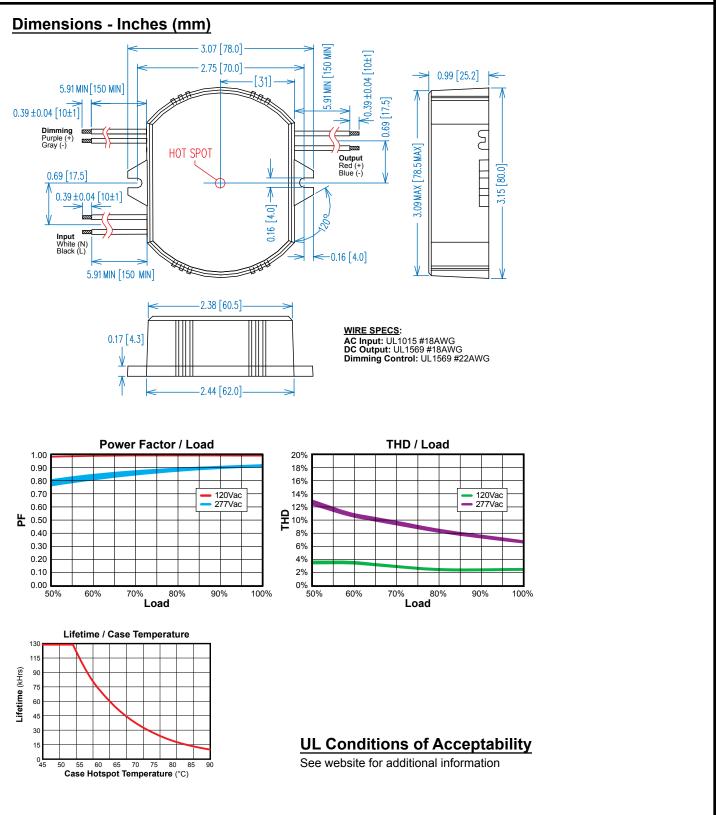
Class 2: US/Canada US Only

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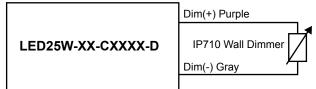
LED25W

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

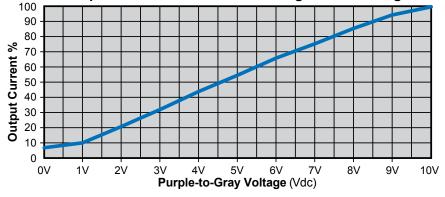
Parameters	Minimum	Typical	Maximum
Source Current out of 0-10V Purple Wire	0 mA	—	2 mA
Absolute Voltage Range on 0-10V (+) Purple Wire	-2.0 V	—	+15 V

Typical Dimming Circuit



(Dimmer must be current-sink type control)

Output Current / 0-10VDC Dimming Control Voltage



Notes:

- 1. 0-10V dimmable version comes with an extra two wires +Purple/-Gray on the output side.
- 2. Compatible with most 0-10V dimmers. 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.

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LED25W

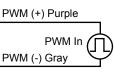
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"-PD" Option: PWM Dimming

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:

100 90 80

> 70 60

- 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.