

SSL Solutions Faster Than The Speed Of Light®

LED-25W Series- Fixed Output and Dimmable

Switch Mode LED Drivers

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

Total Power: 25 Watts Input Voltage: 90-305 Vac Outputs: Single from 4-72 Vdc Indoor or Outdoor Applications, IP66

High Power Factor

UL8750 and Class 2 Compliant, as noted

IP66 Compliant

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:

Current Accuracy: ± 1% Over input line variation

Load Regulation:

≤ 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

-30°C to +60°C Operating Temperature:

Maximum Case Temp. 90°C

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

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

Sound Rating:

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

EMC: FCC 47CFR Part 15 Class B compliant

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-072	72	88-350	25	86%	
LED25W-062	62	100-400	25	85%	
LED25W-056	56	113-450	25	84%	
LED25W-040	40	155-620	25	84%	
LED25W-036	36	175-700	25	84%	
LED25W-028	28	213-850	25	83%	
LED25W-024	24	260-1040	25	83%	
LED25W-020	20	313-1250	25	83%	
LED25W-018	18	360-1400	25	82%	
LED25W-016	16	390-1560	25	82%	
LED25W-014	14	438-1750	25	82%	
LED25W-012	12	520-2080	25	81%	

Class 2: US/Canada US Only

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.



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 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.

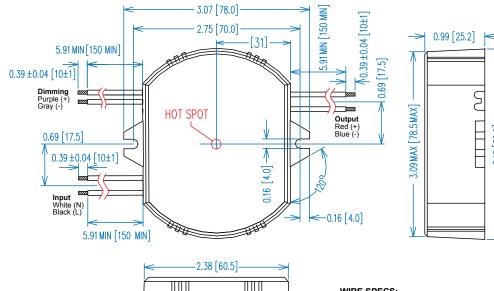
8-29-13



SSL Solutions Faster Than The Speed Of Light®

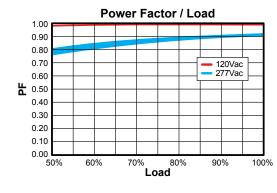
LED25W Pg 2 of 4

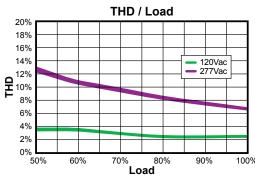
Dimensions - Inches (mm)





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





UL Conditions of Acceptability

See website for additional information



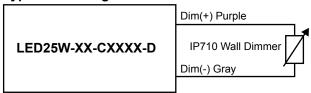
SSL Solutions Faster Than The Speed Of Light®

LED25W Pg 3 of 4

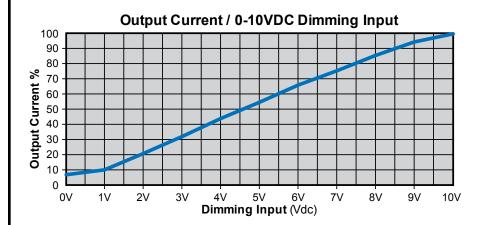
"-D" Option: 0-10VDC and Resistance Dimming

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

Typical Dimming Circuit



(Dimmer must be current-sink type control)



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.



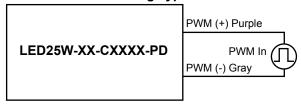
SSL Solutions Faster Than The Speed Of Light®

LED25W Pg 4 of 4

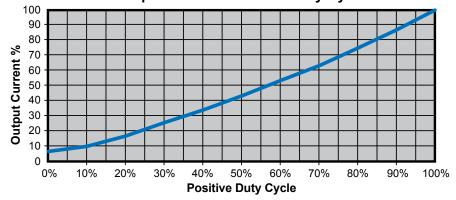
"-PD" Option: PWM Dimming

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.