



# LED-25W CC Series

## Switch Mode LED Driver

select **SYNC**<sup>™</sup>  
classic

### Electrical Specifications

Input Voltage Range:	120-277 Vac Nom. (100-305 V Min/Max)
Input Over-Voltage:	Can endure 320Vac for 48 Hrs, 350Vac for 2 Hrs
Frequency:	50/60 Hz Nom. (47-63 Hz Min/Max)
Power Factor:	≥ 0.90 at 120/230/277Vac ≥ 50% Load
Inrush Current:	<50A at 25C, 277Vac, cold start, Full Load
Input Current:	0.25A Maximum at 120Vac, 60Hz, Full Load
Maximum Power:	25W
Line Regulation:	± 3%
Load Regulation:	± 4%
THD:	≤ 20% at 120/230/277Vac ≥ 50% Load
Leakage Current:	700uA, 277Vac
Hold Up Time:	Half Cycle

### Protections

Over-voltage:	No Damage, Auto Recovery after fault is removed
Over-current:	Constant Current Limiting Circuit
Short Circuit:	No Damage, Auto Recovery after fault is removed

### Environmental Specifications

Max Case Life Temp:	72°C (5 year warranty)
Maximum Case Temp (UL):	90°C
Minimum Starting Temp:	-40°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 @ full load & 40°C ambient conditions per MIL-217F Notice 2
EMC:	FCC, 47CFR Part 15 Class B @ 120Vac, Class A @ 277Vac

- Total Power: 25 Watts
- Input Voltage: 120-277 Vac Nom.
- UL Dry & Damp Location Rated
- High Power Factor
- UL8750 and Class 2 Compliant, as noted
- Constant Current with Isolation
- Black Magic Thermal Advantage™ Plastic Housing
- 0-10V Linear Dimming 1% to 100%
- Dims to Zero @ ≤1.0V, Standby Power ≤0.5W

#### Dimming Standard:

0-10V & Resistance dimmable models include an extra two wires +Violet/-Pink on the output side. "-D" Compatible with most quality 0-10V wall dimmers. See page 3 for dimming 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 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.



### Constant Current Models

Model	Output Current (mA ±4%)	Output Voltage Range (Vdc)	Max. Output Power (W)	Typical Efficiency
LED25W-72-C0350-XX	350	36-72	25	86%
LED25W-62-C0400-XX	400	31-62	24.8	85%
LED25W-56-C0450-XX	450	28-56	25	84%
LED25W-40-C0620-XX	620	20-40	24.8	84%
LED25W-40-C0500-XX	500	20-40	20	84%
LED25W-40-C0350-XX	350	20-40	14	84%
LED25W-36-C0700-XX	700	18-36	25	84%
LED25W-28-C0850-XX	850	14-28	23.8	83%
LED25W-28-C0350-XX	350	14-28	9.8	83%
LED25W-24-C1040-XX	1040	12-24	25	83%
LED25W-20-C1250-XX	1250	10-20	25	83%

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

Class 2: US/Canada

### Safety Cert. Standard

UL/CUL	UL8750
CSA	22.2
CE	EN61347

### EMC Standard Notes

EN61000-3-2	
EN61000-3-3	Class C
FCC, 47CFR Part 15	Class B @ 120Vac, Class A @ 277Vac
EN6100-4-5	2KV L-N, 8/20 μsec Surge Protection



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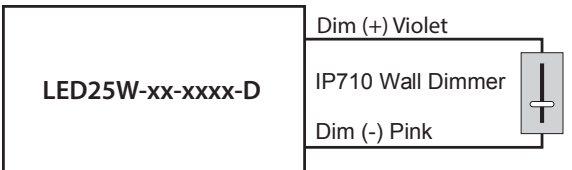
### “-D” Option: 0-10VDC and Resistance Dimming, Dims to Zero at < 1.0V

Parameters	Minimum	Typical	Maximum
Source Current out of 0-10V Violet Wire	0 mA	—	1mA
Absolute Voltage Range on 0-10V (+) Violet Wire	-2.0V	—	+15V

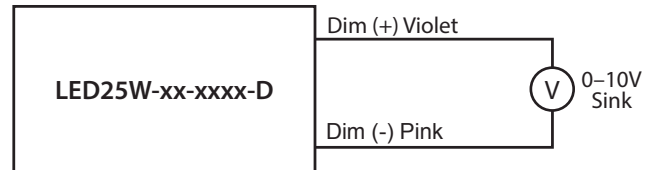
#### Notes:

- D 0-10V dimmable version comes with an extra two wires +Violet/-Pink on the output side.
- D version is compatible with most 0-10V Wall Slide dimmers and direct 0-10V analog signal. Recommended wall slide dimmer is Leviton IP710 or equivalent.
- D 0-10V dimmable version is Dim to Zero @ ~1.00V and 1% Min Dim.
- D 0-10V dimmable version output will be 100% with Violet/Pink open and minimum with Violet/Pink Shorted.
- Dimming wires +Violet/-Pink must not touch any other wires or damage to LED Driver can occur.

#### -D 2-Wire Resistance Dimming Scheme



#### -D 2-Wire 0-10V Analog Dimming Scheme



% Output Current Vs. 0-10V DC Dimming Input

