



# PLED-96W CC Series

## Flicker-Free 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 ≥ 60% Load, 120/230/277Vac
Inrush Current:	<70A at 25C, 277V, cold start, Max. Load
Input Current:	1.01A max @ 120Vac
Maximum Power:	96W
Line Regulation:	± 3%
Load Regulation:	± 4%
THD:	≤ 20% at 60% Load, 120/230/277 Vac, ≥ 70% Load, 277Vac
Leakage Current:	750uA, 277Vac
Hold Up Time:	40mS typical @ Full Load, 277Vac

### 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:	73°C (5 year warranty)
Maximum Case Temp (UL):	90°C
Minimum Starting Temp:	-40°C
Class P:	UL8750, CSA 22.2 listed, UL Type HL
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
Impact Resistance:	1g/s
MTBF:	474,000 Hours @ full load & 40°C ambient conditions per MIL-217F Notice 2
EMC:	FCC 47CFR Part 15 Class B @ 120Vac, Class A @ 277Vac
Weight:	21.6 oz. (612 g)

- Total Power: 96 Watts
- Constant Current, Dimming with Isolation
- Input Voltage: 120-277Vac Nom.
- UL Dry & Damp Location Rated
- IP67 and NEMA4
- cULus Listed, Class P
- UL Type HL Rated for Hazardous Locations
- Black Magic Thermal Advantage™ Aluminum Housing

#### Dimming Option:

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 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 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 ±5%)	Output Voltage Range (Vdc)	Max. Output Power (W)	Max Efficiency
PLED96W-274-C0350-XX	350	92-274	95.9	92%
PLED96W-213-C0450-XX	450	71-213	95.6	92%
PLED96W-137-C0700-XX	700	46-137	95.9	92%
PLED96W-092-C1050-XX	1050	31-92	96	91%
PLED96W-069-C1400-XX	1400	23-69	96	91%
PLED96W-054-C1750-XX	1750	18-54	94.5	91%
PLED96W-048-C2000-XX	2000	16-48	96	90%
PLED96W-046-C2100-XX	2100	16-46	96	90%
PLED96W-043-C2230-XX	2230	15-43	96	90%
PLED96W-039-C2450-XX	2450	14-39	95.5	89%
PLED96W-036-C2660-XX	2660	12-36	95.7	89%
PLED96W-034-C2800-XX	2800	12-34	95.2	89%
PLED96W-030-C3150-XX	3150	10-30	94.8	89%
PLED96W-027-C3500-XX	3500	9-27	94.5	88%
PLED96W-024-C4000-XX	4000	8-24	96	88%

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

Class 2: US/Canada

### Safety Cert. Standard

UL/CUL Listed      UL8750 & CAN/CSA-22.2 No. 250.13-12, UL1310/CSA-C22.2 No.223-M91 for Class 2, UL1012/CSA-C22.2 No.107.1 for Non-Class 2

CE      EN61347

### EMC Standard Notes

FCC, 47CFR Part 15      Class B @ 120Vac, Class A @ 277Vac

EN55015      Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment.

EN 61000-3-2      Part 3-2: Limits for harmonic current emissions Class C, >80% Rated Power

EN 61000-3-3      Part 3-3: Limitation of voltage changes, voltage fluctuations and flicker.

EN 61000-4-5      Part 4-5: Surge Immunity test, 2 kV L-N, 4 kV L-G & N-G



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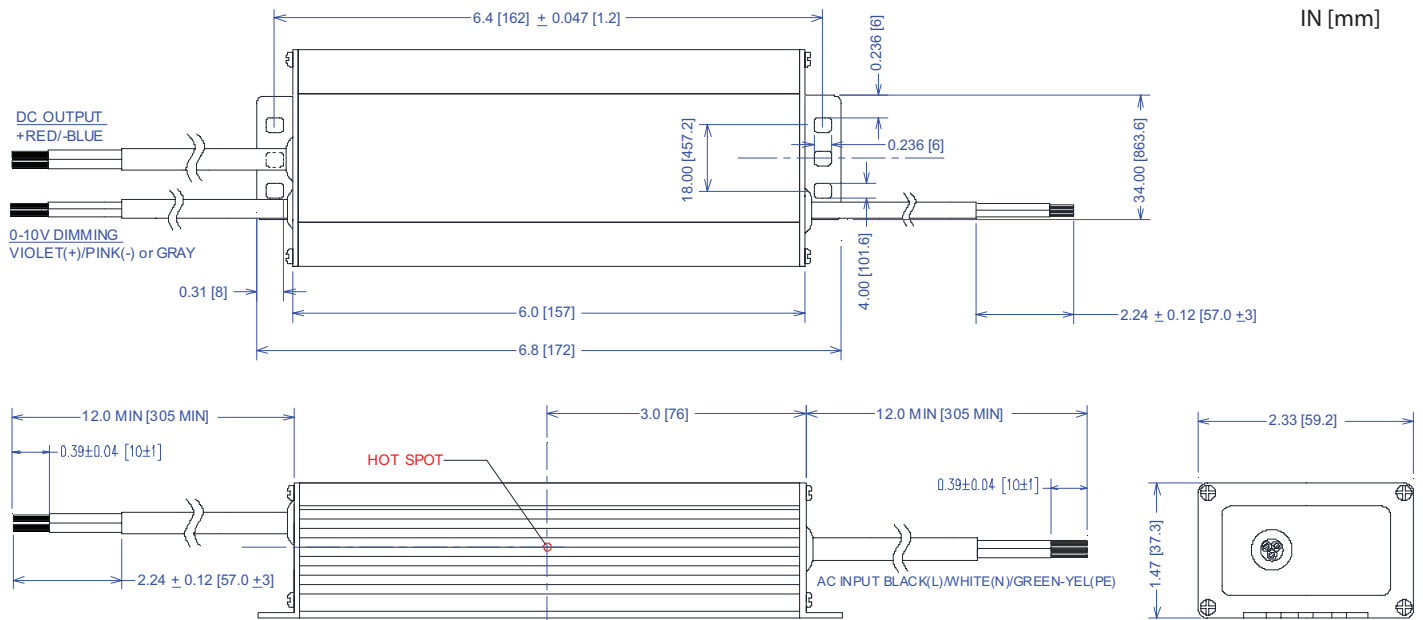
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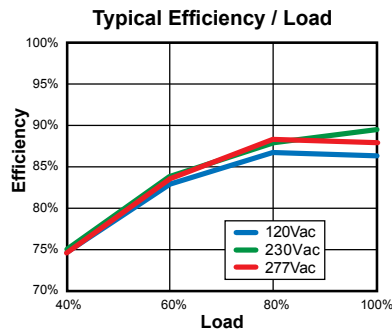
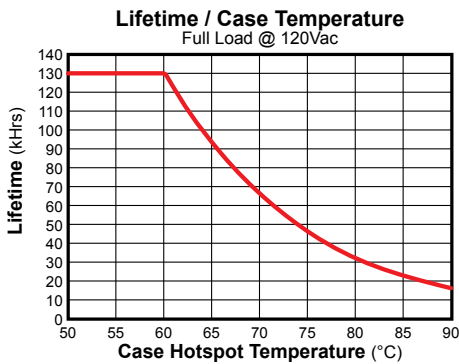
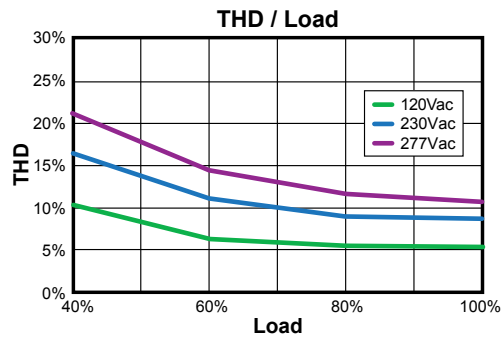
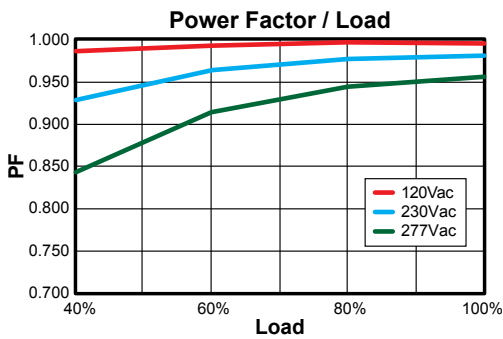
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Violet (Dim+)

**Dimensions**



**Power Characteristics**



**Note:** The area under the life-temperature curve represents where the driver has highly reliable operation within specification. Driver performance may drift out of published specifications as the hours of operation exceed the curve at a given temperature. Higher operating temperatures increase the chances of a failure to function. Other electrical, mechanical and environmental factors affect driver lifetime but are not represented in this calculation.

**UL Conditions of Acceptability:**  
See website for additional information

### “-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	0uA	—	250uA
Absolute Voltage Range on 0-10V (+) Violet Wire	-2.0V	—	+15V

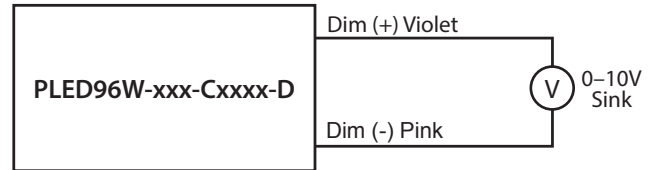
#### Notes:

- 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 will be  $\leq 5\%$  @  $\leq 1.0V$  or with Violet/Pink Shorted.
- D 0-10V dimmable version output will be 100% with Violet/Pink open and minimum with Violet/Pink Shorted.

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



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



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

