PLED-96W CV Series

Flicker-Free LED Driver

selectSYNC 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:	1.3A Maximum
Maximum Power:	96W
Line Regulation:	± 3%
Load Regulation:	± 4%
THD:	≤ 20% at 60% Load, 120/230/277 Vac
Leakage Current:	750uA max, 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: *(5 year warranty)*	73˚C
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 Voltage
- Input Voltage: 120-277Vac Nom.
- UL Dry & Damp Location Rated
- IP67 and NEMA4
- cULus Listed, Class P
- UL Type HL Rated for Hazardous Locations
- UL Sign Components Manual (S.A.M. Models)
- Black Magic Thermal Advantage™ Aluminum Housing

Note: CV LED drivers are designed and intended to operate CV 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 Voltage Models

Model	Output Voltage *(Vdc ±5%)*	Output Current Range *(mA)*	Max. Output Power *(W)*	Max Efficiency
PLED96W-024 •	24	1000-4000	96	85%
PLED96W-030	30	788-3150	96	89%
PLED96W-034	34	700-2800	96	89%
PLED96W-036	36	665-2660	96	89%
PLED96W-039	39	613-2450	96	89%
PLED96W-048	48	525-2100	96	88%
PLED96W-092	92	263-1050	96	91%
PLED96W-137	137	175-700	96	92%

• Indicates S.A.M.

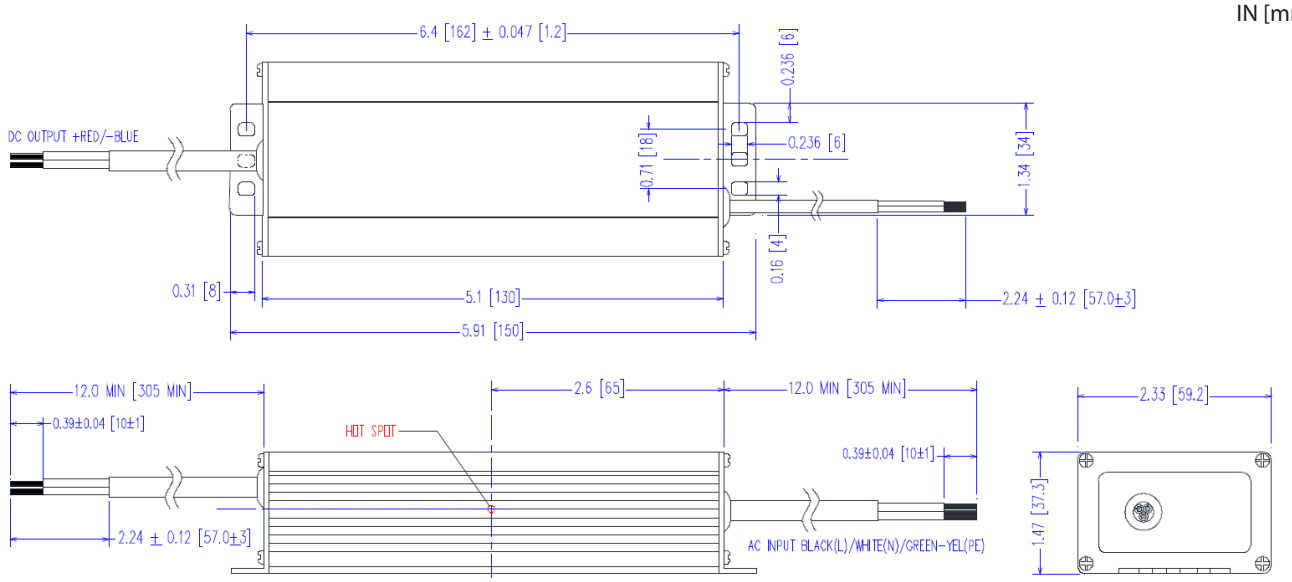
Class 2: US/Canada

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

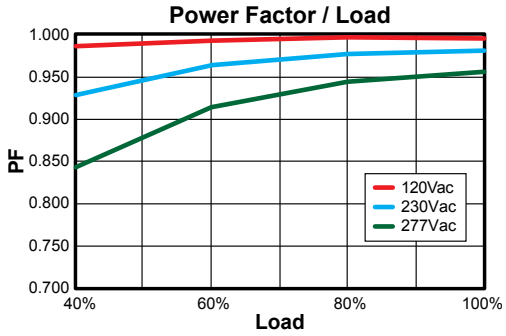
EMC Standard	Notes
FCC, 47CFR Part 15	Class B @ 120Vac, Class A @ 277Vac
EN55015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment.
EN 61000-3-2	Part 3-2: Limits for harmonic current emissions Class C, >80% Rated Power
EN 61000-3-3	Part 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

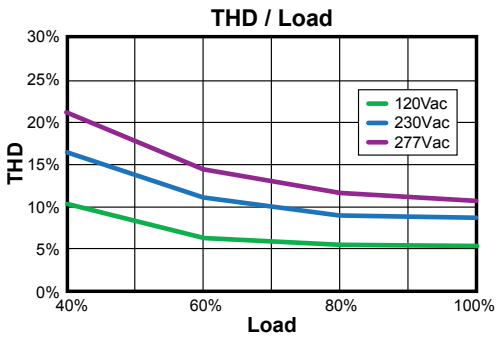
Dimensions

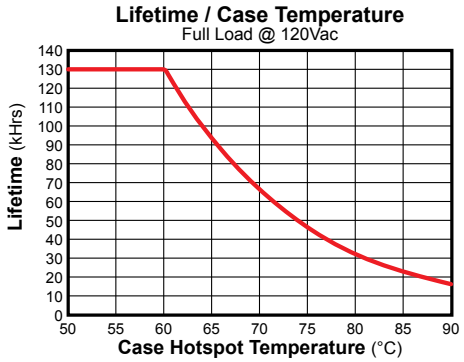
IN [mm]

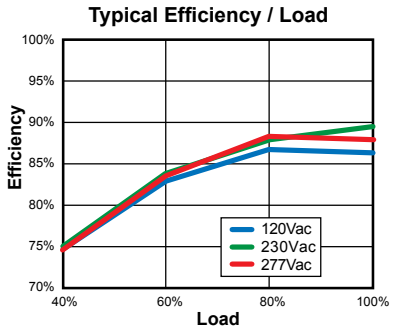


Power Characteristics









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