



LED-50W CV Series

Fixed Output Switch Mode LED Driver

select **SYNC**[™]
classic

Electrical Specifications

Input Voltage Range:	100-277 Vac Nom. (90-305 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, 120Vac/230Vac, ≥ 88% load 277Vac
Inrush Current:	<30A at 25C, 277Vac, cold start, Max. Load
Input Current:	0.50A at 120Vac, 60 Hz, Max Load
Maximum Power:	50W
Load Regulation:	± 4%
THD:	≤ 20% at ≥ 60% Load, 120Vac/230Vac, ≥ 80% Load 277Vac
Leakage Current:	400 µA Typical
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: (5 year warranty)	65°C
Maximum Case Temp (UL):	90°C (3330mA and 15V, 88°C) (4200mA and 12V, 78°C)
Minimum Starting Temp:	-30°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
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 compliant

- Total Power: 50 Watts
- Input Voltage: 120-277 Vac Nom.
- UL Dry & Damp Location Rated
- IP66
- High Power Factor
- Constant Voltage with Isolation
- Black Magic Thermal Advantage™ Plastic Housing
- UL8750
- UL Sign Components Manual (S.A.M. Models)

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 Voltage Models

Model	Output Voltage (Vdc ±5%)	Output Current Range (mA)	Max. Output Power (W)	Typical Efficiency
LED50W-012 •	12	1050-4200	50	84%
LED50W-024 •	24	525-2100	50	87%
LED50W-036	36	350-1400	50	87%
LED50W-048	48	263-1050	50	88%

• Indicates S.A.M.

Class 2: US/Canada

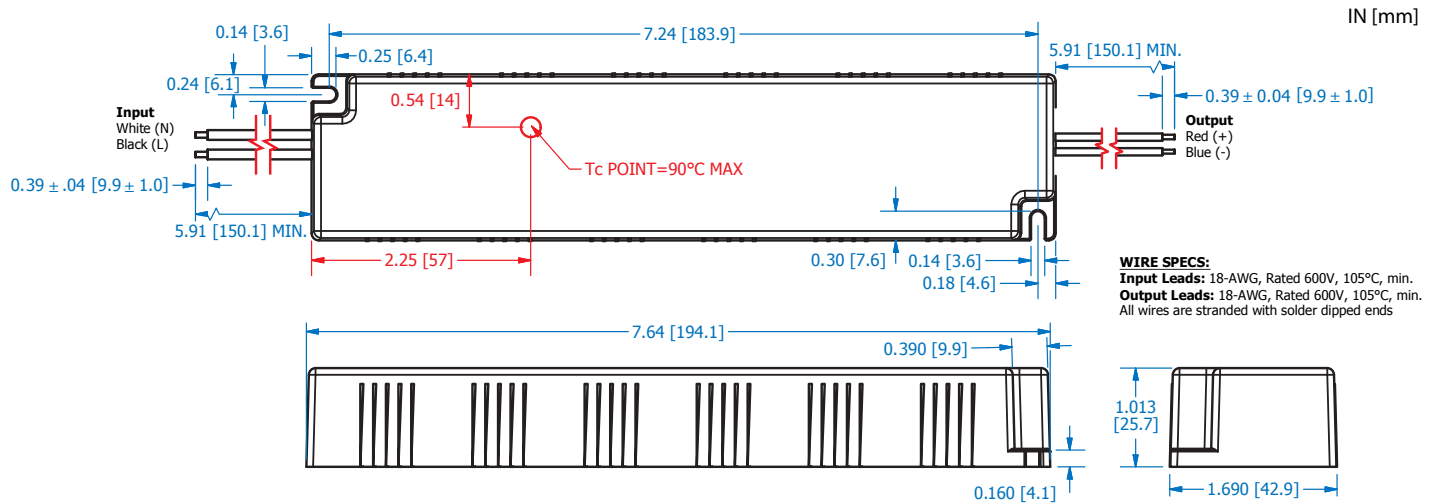
Safety Cert. Standard

UL/CUL	UL8750
CSA	22.2
CE	EN61347

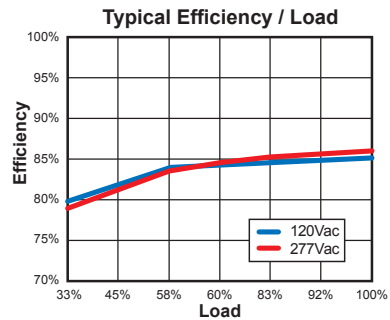
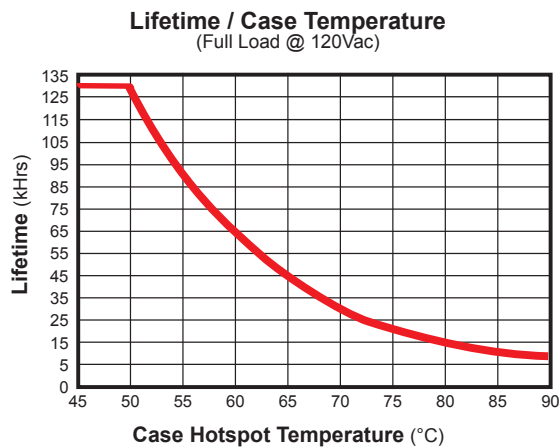
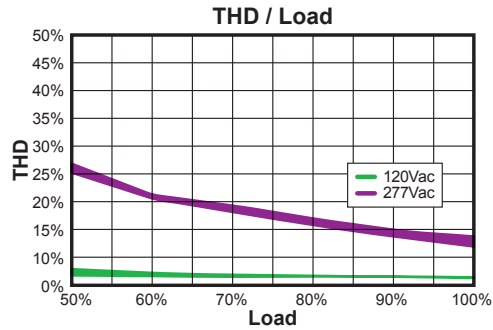
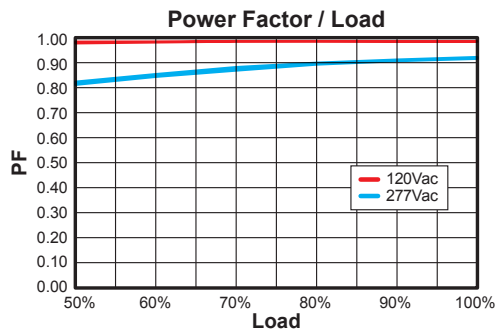
EMC Standard Notes

EN55015	
EN61000-3-2	> 80% Rated Power
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

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