LED-30W CV Series

Fixed Output Switch Mode LED Driver

select SYNC classic

E332160

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:	0.30A at 120Vac, 60 Hz, Max Load
Maximum Power:	30W
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)*	66˚C
Maximum Case Temp (UL):	90°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
MTBF:	484,000 Hours @ full load & 40°C ambient conditions per MIL-217F Notice 2
EMC:	FCC 47CFR Part 15 Class B compliant

- Total Power: 30 Watts
- Input Voltage: 120-277 Vac Nom.
- UL Dry & Damp Location Rated
- IP66
- High Power Factor
- UL Type HL Rated for Hazardous Locations
- Constant Voltage with Isolation
- Black Magic Thermal Advantage™ Plastic Housing
- UL Sign Components Manual (S.A.M. Models)

Constant Voltage Models

Model	Output Voltage *(Vdc ±5%)*	Output Current Range *(mA)*	Max. Output Power *(W)*	Typical Efficiency
LED30W-12 •	12	652-2500	30	84%
LED30W-24 •	24	313-1250	30	85%
LED30W-36	36	208-830	30	86%

• 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	
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

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.

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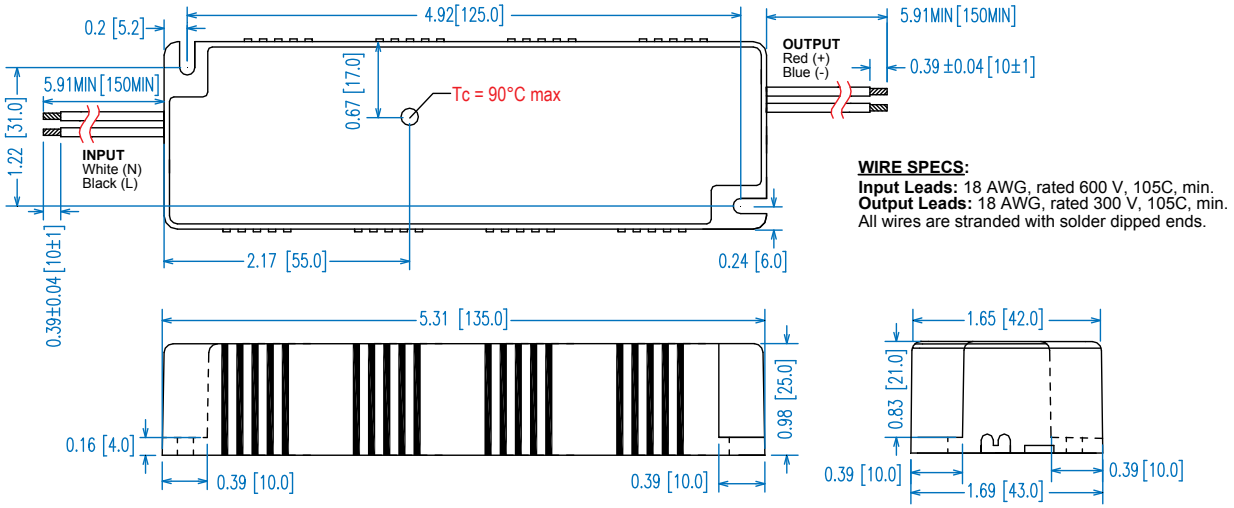
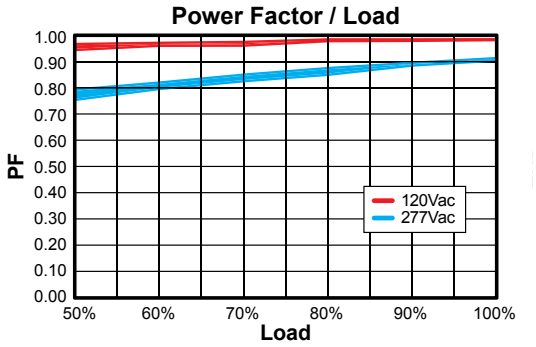
Dimensions

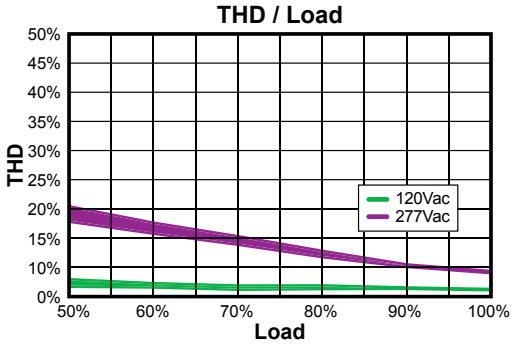
IN [mm]

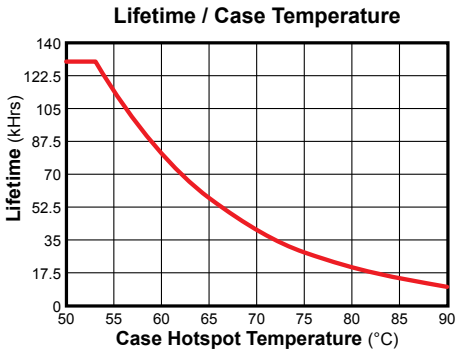


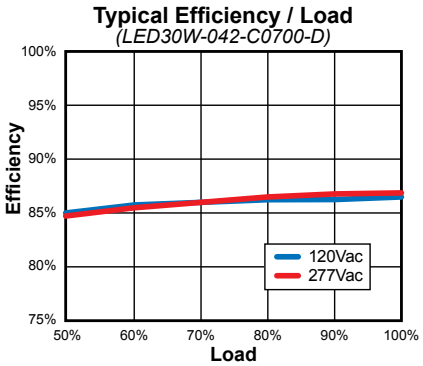
WIRE SPECS:
Input Leads: 18 AWG, rated 600 V, 105C, min.
Output Leads: 18 AWG, rated 300 V, 105C, min.
All wires are stranded with solder dipped ends.

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