



LED-30W CC Series

Switch Mode LED Driver

select **SYNC**[™]
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:	<40.0 Amps max @ 120 Vac, cold start 25°C
Input Current:	0.30A Max at 120Vac, 60Hz, Full Load
Maximum Power:	30W
Line Regulation:	± 3%
Load Regulation:	± 4%
THD:	≤ 20% at 120/230/277Vac ≥ 50% Load
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:	66°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:	484,000 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: 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 Current, Dimming 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 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 ±4%)	Output Voltage Range (Vdc)	Max. Output Power (W)	Typical Efficiency
LED30W-85-C0350-XX	350	42-85	29.8	86%
LED30W-75-C0400-D	400	37-75	30	86%
LED30W-66-C0450-XX	450	33-66	29.7	85%
LED30W-54-C0560-D	560	27-54	30	85%
LED30W-42-C0700-XX	700	21-42	29.4	85%
LED30W-36-C0830-XX	830	18-36	29.9	84%
LED30W-24-C1250-XX	1250	12-24	30	84%
LED30W-18-C1660-XX	1660	9-18	30	84%

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

Safety Cert.

Standard

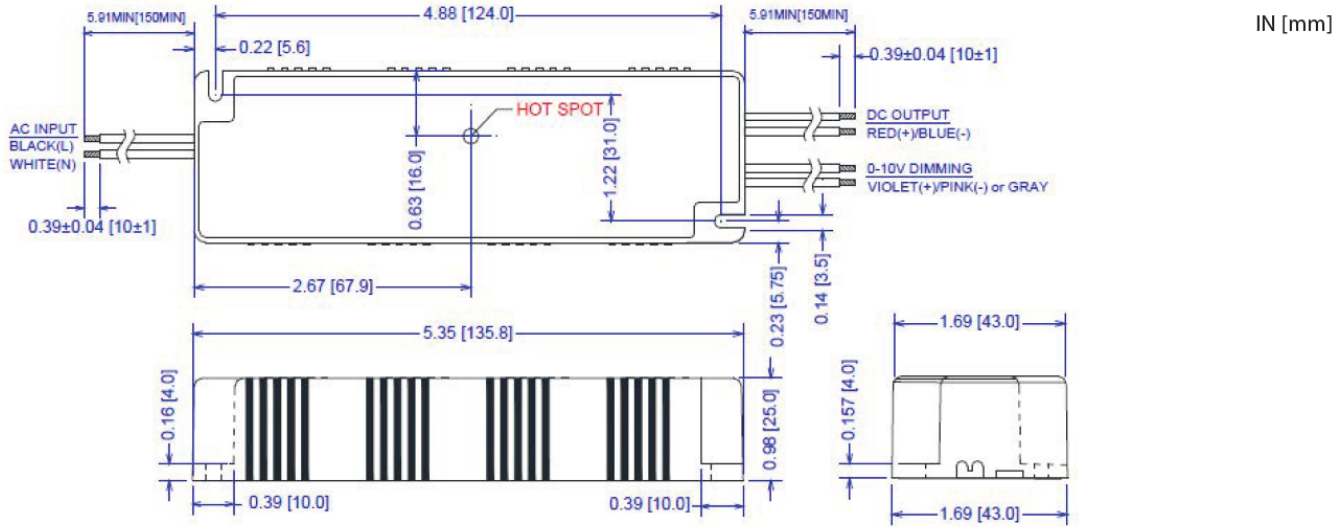
UL/CUL	UL8750
CSA	22.2
CE	EN61347

EMC Standard

Notes

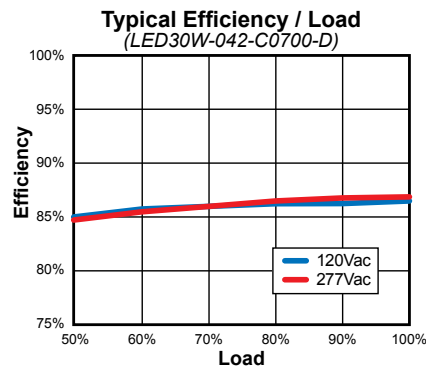
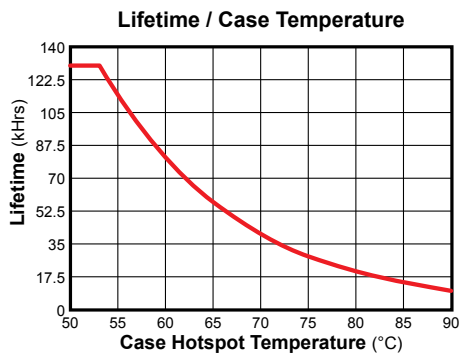
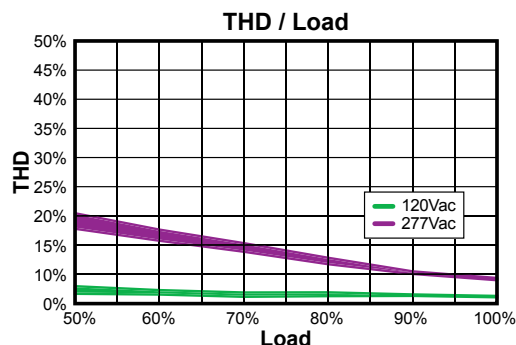
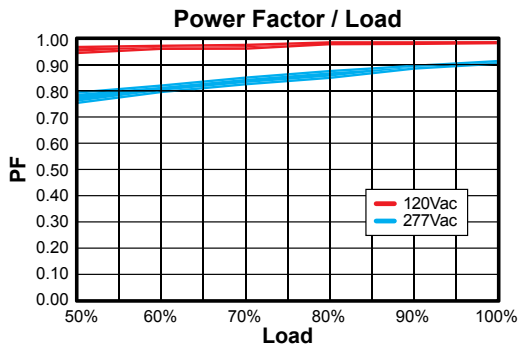
EN55015	
EN61000-3-2	
EN61000-3-3	Class C
FCC, 47CFR Part 15	Class B @ 120Vac, Class A @ 277Vac
EN6100-4-5	2KV L-N, 8/20 µsec Surge Protection

Dimensions



Input Leads: 18 AWG, rated 600 V, 105C, min.
Output Leads: 18 AWG, rated 300 V, 105C, min.
Dimming Leads: 22 AWG, rated 300 V, 105C.
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

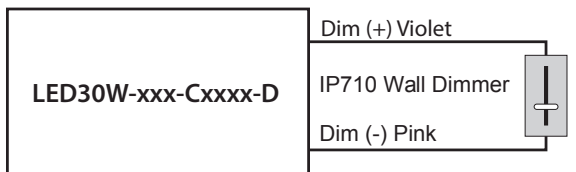
“-D” Option: 0-10VDC and Resistance Dimming, Dims to Zero at < 1.0V

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

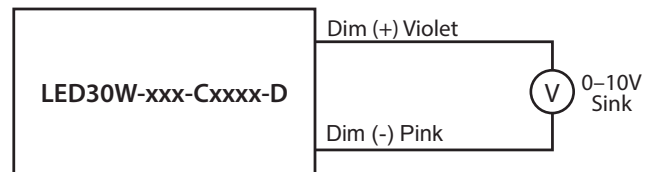
Notes:

- 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 0-1 0V 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

