

LED-30W Series

Fixed Output and Dimmable Switch Mode LED Drivers



Electrical Specif	ications			
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 @ full load, 100V through 277V			
Inrush Current:	<15.0 Amps max @ 230 Vac, cold start 25°C			
Input Current:	0.41 Amps max (LED30W-42-C0700: 0.43 Amp max)			
Maximum Power:	30W			
Current Accuracy:	± 1% Over input line variation			
Load Regulation:	±3%			
THD:	≤ 20% @ full load			
Leakage Current:	400 μA Typical			
Hold Up Time:	Half Cycle			
Protections				
Over-voltage	Output			
Over-current	Output			
Short Circuit	Auto Recovery			
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 at full load and 40°C ambient conditions per MIL-217F Notice 2			
EMC:	FCC 47CFR Part 15 Class B compliant			

• Total Power: 30 Watts

Input Voltage: 100-277 Vac Nom.UL Dry & Damp Location Rated

• IP66

• High Power Factor

• Constant Current & Constant Voltage with Isolation

• Black Magic Thermal Advantage™ Plastic Housing

• UL Sign Components Manual (S.A.M. Models)

Dimming Option:

0-10V & Resistance dimmable models include an extra two wires +Purple/-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.

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Constant Current Models

Model	Output Current (mA ±3%)	Output Voltage Range (Vdc)	Max. Output Power (W)	Typical Efficiency
LED30W-85-C0350-XX	350	28-85	29.8	88%
LED30W-75-C0400-XX	400	25-75	30	87%
LED30W-66-C0450-XX	450	22-66	29.7	87%
LED30W-42-C0700-XX	700	14-42	29.4	87%
LED30W-36-C0830-XX	830	12-36	29.9	87%
LED30W-24-C1250-XX	1250	8-24	30	86%
LED30W-18-C1660-XX	1660	6-18	30	85%
LED30W-12-C2500-XX	2500	4-12	30	85%

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

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-18	18	415-1660	30	85%
LED30W-24	24	313-1250	30	85%
LED30W-36	36	208-830	29.9	86%
LED30W-42	42	175-700	29.4	87%
LED30W-66	66	113-450	29.7	87%
LED30W-75	75	100-400	30	87%
LED30W-85	85	88-350	29.8	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	
EN61000-3-3	Class C
FCC, 47CFR Part 15	Class B
EN6100-4-5	2KV L-N, 8/20 μsec Surge Protection

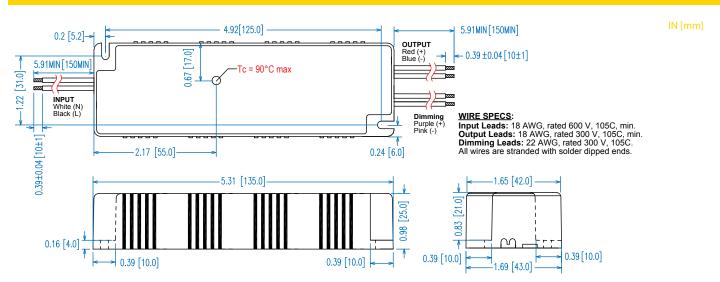


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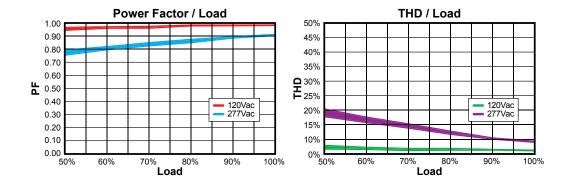


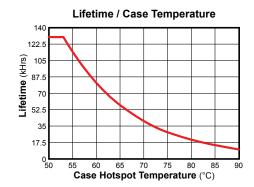
Fixed Output and Dimmable witch Mode LED Drivers

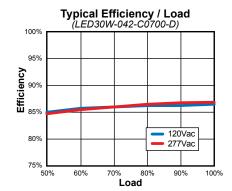
Dimensions



Power Characteristics







UL Conditions of Acceptability

See website for additional information

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.



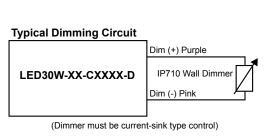
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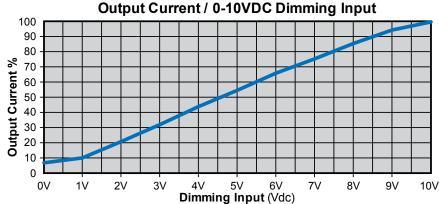


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"-D" Option: 0-10VDC and Resistance Dimming

Parameters	Minimum	Typical	Maximum
Source Current out of 0-10V Purple Wire	0 mA		2 mA
Absolute Voltage Range on 0-10V (+) Purple Wire	-2.0 V		+15 V





Notes:

- 1. 0-10V dimmable version comes with an extra two wires +Purple/-Pink on the output side.
- 2. Compatible with most 0-10V Wall Slide dimmers and direct 0-10V analog signal. Recommended dimmer is Leviton IP710 or equivalent
- 3. 0-10V dimmable version is not intended to dim below about 5% @ 0V or 10% @ 1.0V
- 4. 0-10V dimmable version output will be 100% with Purple/Pink open and minimum with Purple/Pink Shorted.
- 5. For units manufactured before Date of January 1st 2022, the Dim(-) wire will be gray, not pink.