

# LED-30W Series

## Fixed Output and Dimmable Switch Mode LED Drivers



### 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 @ 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-Voltage, Output Over-Current
Short Circuit	Auto Recovery

### Environmental Specifications

Maximum Case Temp.	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
- UL Sign Components Manual (S.A.M. Models)

#### Ordering Options:

-D: 0-10V & Resistance dimmable version comes with an extra two wires +Purple/-Gray on the output side. -D 0-10V Dimming is compatible with most quality 0-10V wall dimmers. See page 3 for additional specifications.



### 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

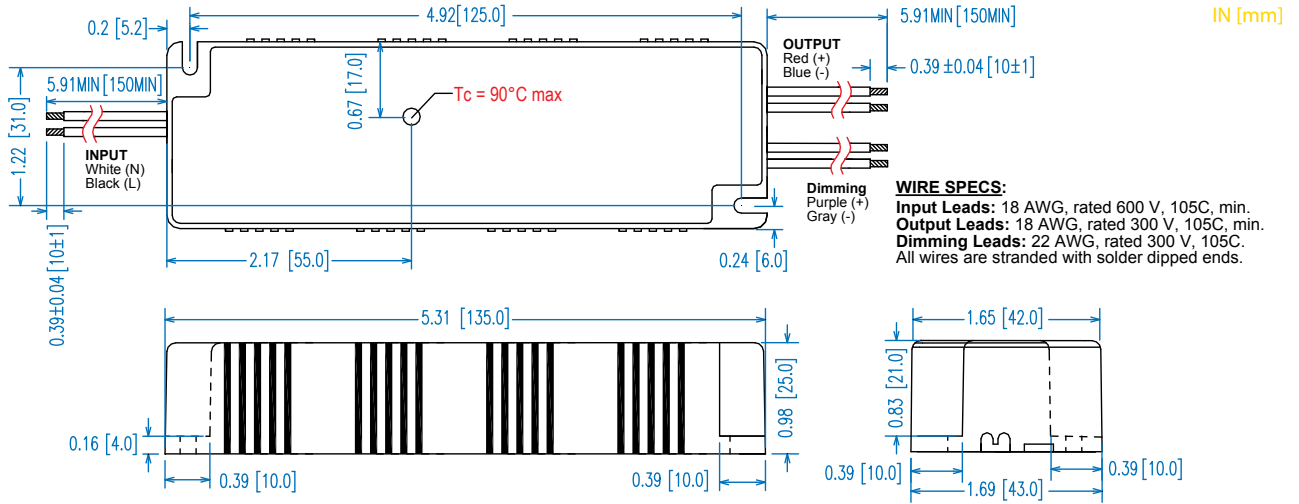
Model	Output Voltage (Vdc ±5%)	Output Current Range (mA)	Max. Output Power (W)	Typical Efficiency
LED30W-12	12	652-2500	30	84%
LED30W-18	18	415-1660	30	85%
LED30W-24	24	313-1250	30	85%
LED30W-36	36	208-830	29.9	86%
LED30W-42	42	175-700	29.4	87%
LED30W-66	66	113-450	29.7	87%
LED30W-75	75	100-400	30	87%
LED30W-85	85	88-350	29.8	88%

• Indicates S.A.M.  
Class 2: US/Canada

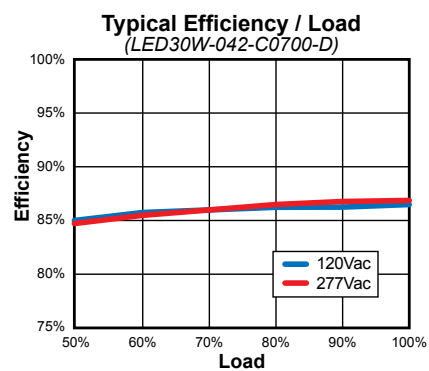
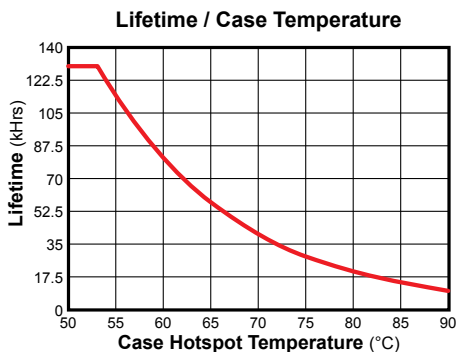
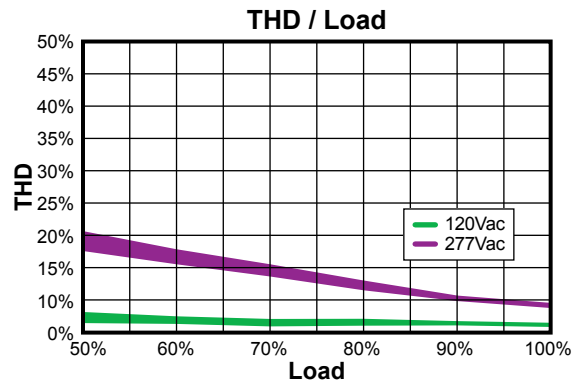
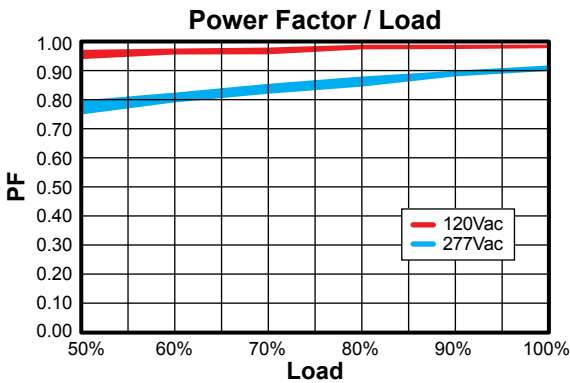
Safety Cert.	Standard
UL/CUL	UL8750
CSA	22.2
CE	EN61347
EMC Standard	Notes
EN55015	
EN61000-3-2	
EN61000-3-3	Class C
FCC, 47CFR Part 15	Class B
EN6100-4-5	2KV L-N, 8/20 µsec Surge Protection



**Dimensions**



**Power Characteristics**



**UL Conditions of Acceptability**

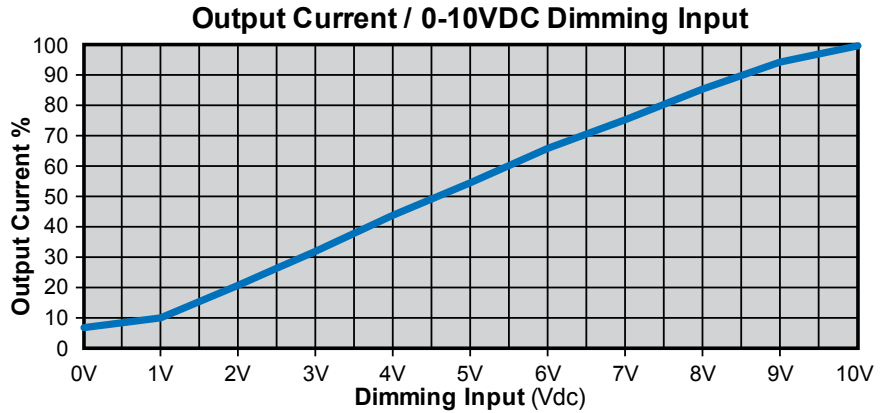
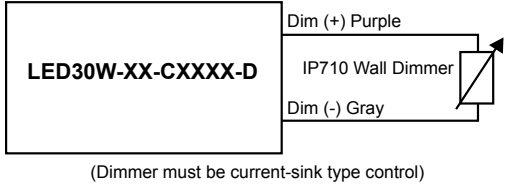
See website for additional information

**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.

### "-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	-2.0V	---	+15V

#### Typical Dimming Circuit



#### Notes:

- 0-10V dimmable version comes with an extra two wires +Purple/-Gray on the output side.
- Compatible with most 0-10V Wall Slide dimmers and direct 0-10V analog signal. Recommended dimmer is Leviton IP710 or equivalent
- 0-10V dimmable version is not intended to dim below about 5% @ 0V or 10% @ 1.0V
- 0-10V dimmable version output will be 100% with Purple/Gray open and minimum with Purple/Gray Shorted.