

## **LED-12W Dimming Series** Switch Mode LED Drivers



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<b>Electrical Specif</b>	ications		
Input Voltage Range:	120-277 Vac Nom. (108-305 V Min/Max)		
Frequency:	50/60 Hz Nom. (47-63 Hz Min/Max)		
Power Factor:	>0.90		
Inrush Current:	<10.0 Amps max @ 230 Vac, cold start 25°C		
Input Current:	0.15 Amps max at 120 Vac		
Maximum Power:	12W		
Line Regulation:	± 3%		
Load Regulation:	± 4%		
THD:	≤ 20%		
Hold Up Time:	Half Cycle		
Protections			
Over-voltage	Output		
Over-current	Output		
Short Circuit	Auto Recovery		
<b>Environmental S</b>	Specifications		
Max Case Life Temp: (5 year warranty)	68°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:	>550,000 Hours @ full load & 40°C ambient conditions per MIL-217F Notice 2		

• Total Power: 12 Watts

Weight:

• Input Voltage: 120-277 Vac Nom. • UL Dry & Damp Location Rated

- High Power Factor
- UL Type HL Rated for Hazardous Locations
- Constant Current, Dimming with Isolation
- Black Magic Thermal Advantage<sup>™</sup> Plastic Housing

5.8 oz (164.43 g)

#### **Dimming Standard:**

0-10V & Resistance dimmable models include an extra two wires +Purple/-Gray on the output side. "-D" Compatible with most quality 0-10V wall dimmers. See page 3 for dimming 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		
LED12W-36-C0250-D	250	12-36	9	77%		
LED12W-48-C0250-D	250	16-48	12	80%		
LED12W-36-C0350-D	350	12-36	12.6	80%		
LED12W-24-C0500-D	500	8-24	12	78%		
LED12W-16-C0700-D	700	6-16	11.2	78%		
LED12W-16-C0800-D	800	6-16	12.8	78%		
LED12W-12-C1000-D	1000	4-12	12	77%		

Class 2: US/Canada

Safety Cert.	Standard
UL/CUL	UL8750
CSA	22.2
CE	EN61347
<b>EMC Standard</b>	Notes
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

Pg 1 of 3



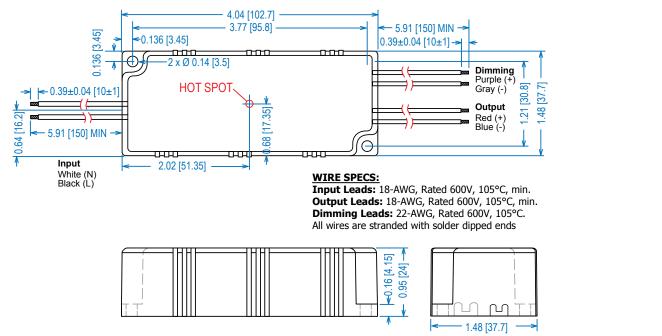
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Switch Mode LED Drivers

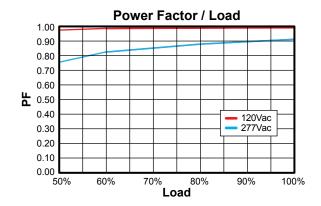


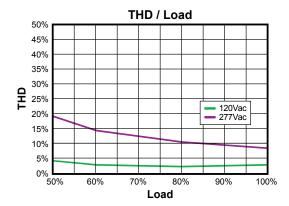
#### **Dimensions**

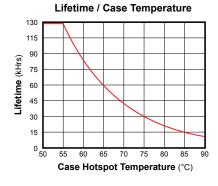
IN [mm



### **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



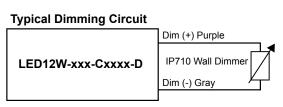
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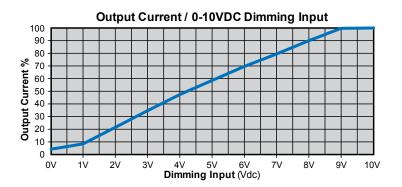
**Switch Mode LED Drivers** 

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

Parameters	Minimum	Typical	Maximum
Source Current out of 0-10V Purple Wire	0 mA	_	2mA
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/-Gray 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 output will be  $\leq 10\%$  @ 0-1.0V
- 4. 0-10V dimmable version output will be 100% with Purple/Gray open and minimum with Purple/Gray Shorted.