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

## Thomas Research Products

Rev 4-3-21

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#### • Total Power: 12 Watts

- Input Voltage: 120-277 Vac Nom.
- UL Dry & Damp Location Rated
- High Power Factor
- ULType HL Rated for Hazardous Locations
- Constant Current, Dimming with Isolation
- Black Magic Thermal Advantage™ Plastic Housing

## 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**

SAP PN	Model	Output Current (mA ±4%)	Output Voltage Range (Vdc)	Max. Output Power (W)	Typical Efficiency
93147686	LED12W-36-C0250-D	250	12-36	9	77%
93147688	LED12W-48-C0250-D	250	16-48	12	80%
93147687	LED12W-36-C0350-D	350	12-36	12.6	80%
93147685	LED I 2W-24-C0500-D	500	8-24	12	78%
93147683	LED12W-16-C0700-D	700	6-16	11.2	78%
93147684	LED12W-16-C0800-D	800	6-16	12.8	78%
93147682	LED12W-12-C1000-D	1000	4-12	12	77%

Class 2: US/Canada

Safety Cert.	Standard
UL/CUL	UL8750
CSA	22.2
CE	EN61347
EMC Standard	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

HUBBELL Lighting Components





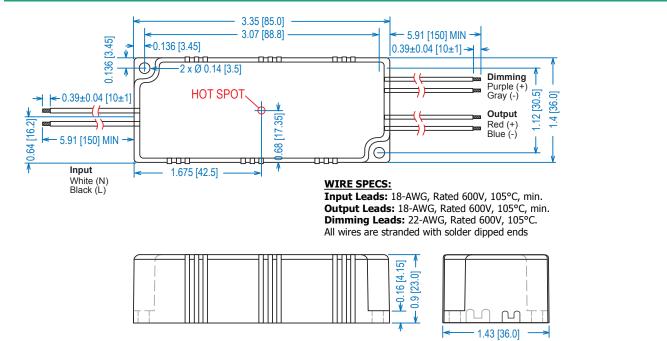
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Switch Mode LED Drivers

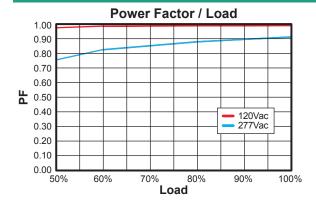
## Thomas Research Products

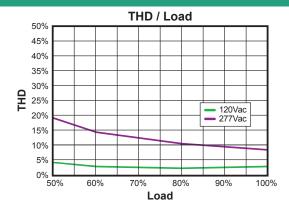
#### **Dimensions**

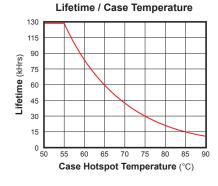
IN [mm]

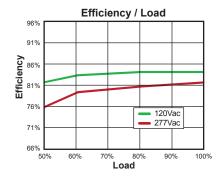


### **Power Characteristics**









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



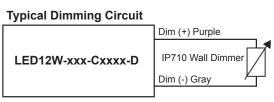
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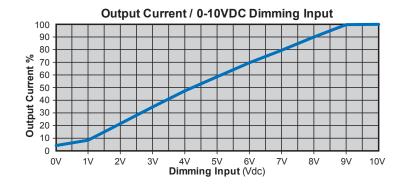
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## "-D" Option: 0-10VDC and Resistance Dimming

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







#### 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.