**The Force of Light**

# FORZLUX

# Class P, UL Listed, High Efficiency Constant Current LED Driver for Universal Dimming Applications

## Features and Benefits

- Class 2, UL 8750 Listed Class P metal case, IP62 rated
- High efficiency 90-93%
- Very high-power density
- Dual dimming (120VAC only for phase dimming), works with most dimmers, triac (forward phase), ELV (reverse phase) and 0-10V
- Universal input 120-277VAC
- Life expectancy of 50,000 hours at Tmp ≤ 75°C
- Output open/short circuit protection



**PS98-2450C-DUALDIM-UNV-P Series**

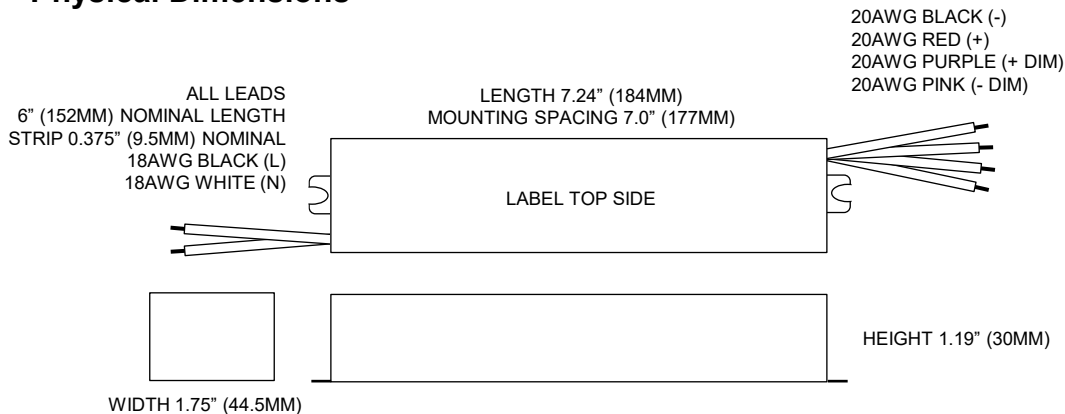## Compatible LED Modules

Nominal DC Output to Module ……………............................................... See Table 1

## Ratings and Performance Specifications

Nominal Power Consumption @ 120VAC …………….................................. See Table 1
Nominal Input Voltage …………….......................................................… 120-277VAC
Maximum Driver Case Temperature @ designated Tmp …………………....…………… +75°C
Maximum Operating Range Ambient Temperature (Ta) …………….............…….... -30 to +50°C
Recommended Screw Installation Torque …………………....................…… 75 inch ounces
Nominal Power Factor …………………................................................…..……………........ > 0.9
Nominal Weight …………………….....................................…….…..............……… 570 grams
Safety/Compliance …………………….................................................……..…..... UL E256805

## Application Notes

1. The proper driver case temperature at designated (Tmp) is critical to ensure proper performance and long life. Careful design consideration required for factors such as ambient conditions (for example weather and surrounding atmosphere inside luminaire) and proximity to heat generating components.

2. Abnormal operating conditions such as elevated ambient temperatures can be expected to negatively impact output, product lifetime and/or product performance.

3. Dims only at 120VAC with most triac dimmers such as Lutron® Diva and Maestro. Complete list of compatible dimmers and application notes available.

## Physical Dimensions



20AWG BLACK (-)
20AWG RED (+)
20AWG PURPLE (+ DIM)
20AWG PINK (- DIM)

ALL LEADS
6" (152MM) NOMINAL LENGTH
STRIP 0.375" (9.5MM) NOMINAL
18AWG BLACK (L)
18AWG WHITE (N)

LENGTH 7.24" (184MM)
MOUNTING SPACING 7.0" (177MM)

LABEL TOP SIDE

HEIGHT 1.19" (30MM)

WIDTH 1.75" (44.5MM)

## Table 1, Performance Characteristics at 25°C

| Part Number | Max Output Power (DCW) | Nominal Input Voltage (VAC) | Dimming Triac & ELV (VAC) | Dimming 0-10V (VAC) | Nominal Output Current (mADC) | Output Voltage Range (VDC) | Efficiency @120VAC Max Load |
|---|---|---|---|---|---|---|---|
| PS98-2450C-DUALDIM-UNV-P | 98 | 120-277 | 120 (only) | 120-277 | 2450 | 20-40 | 90-93% |
| PS98-2450C-DUALDIM-UNV-P-2100MA | 84 | 120-277 | 120 (only) | 120-277 | 2100 | 20-40 | 90-93% |
| PS98-2450C-DUALDIM-UNV-P-1750MA | 70 | 120-277 | 120 (only) | 120-277 | 1750 | 20-40 | 90-93% |
| PS98-2450C-DUALDIM-UNV-P-1400MA | 56 | 120-277 | 120 (only) | 120-277 | 1400 | 20-40 | 90-93% |
| PS98-2450C-DUALDIM-UNV-P-1050MA | 42 | 120-277 | 120 (only) | 120-277 | 1050 | 20-40 | 90-93% |

Contact Forzlux for complete list of compatible dimmers and application notes

## Packaging
Product is marked with SKU and lot information.
Sold in groups of (TBD) unit(s) and packaged with SKU and lot information.

## Warranty
5-Year limited warranty in accordance with published warranty conditions.  Product must be used with compatible components (modules, drivers, engines and/or accessories) and no maximum ratings (such as Tmp) shall be exceeded during any operating conditions of the system.  If product is used with other manufacturer's product, compatibility must be recognized in writing by Forzlux.

Forzlux owns the following United States patents of which may be applicable to the design or manufacture of this product: 6712486, 6578986, 6846093, 7114831, 7306353, 7102172, 7108396, 7329024, 7387406, 7582911, 7649327, 8926145, 8729810. Additional granted patents, patents pending and other IP protection rights may apply.

**IP62**

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RoHS 2002/95/EC

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