

# OPTOTRONIC®

## 50 Watt, Multiple Channel, Dimmable Class 2 Power Supply



### Key Features & Benefits

- Universal Input Voltage – 120-277V AC 50/60 Hz
- Four (4) output channels – Constant current configurations
- Custom output configurations available within the range of 150-350mA in 10mA increments (e.g. 350mA, 340mA, 330mA, etc.)
- Dimmable with 0-10V dimmers
- Short circuit, overload and overheat protection
- Class 2 output
- Extended CFL housing



This light source meets restrictions on hazardous substances.



UL8750/1310 Recognized  
Class 2 Unit (UL File# E320395)  
Compliant to 47 CFR, Part 15 Class B

### Electrical Specifications

| Total Output Power (W) | Input Voltage (VAC)    | Max Input Current (A <sub>AC</sub> ) | Power Factor | Inrush Current (A <sub>PK</sub> ) | THD  | Surge Protection (kV) | Efficiency  | Load Regulation | Dimming Control | Dimming Range | Environmental Rating | UL File # |
|------------------------|------------------------|--------------------------------------|--------------|-----------------------------------|------|-----------------------|-------------|-----------------|-----------------|---------------|----------------------|-----------|
| Max 50W                | 120-277V AC<br>50/60Hz | 0.50A @ 120V<br>0.21A @ 277V         | >0.9         | <55A                              | <20% | 3kV                   | 85% Typical | <+/- 5%         | 0-10V           | 10 – 100 %    | Damp                 | E320395   |

Note: Maximum output power on all channels combined in any configuration (standard or custom) cannot exceed 50W. Other limitations to Class 2 output apply.

### Ordering Information

#### Constant Current Configuration

| Item Number | Ordering Abbreviation | Number of Channels | Total Power | Output Per Channel |               |              |
|-------------|-----------------------|--------------------|-------------|--------------------|---------------|--------------|
|             |                       |                    |             | Current (mA)       | Voltage Range | Max Load (W) |
| 79306       | OT25W/4X150C/UNV/DIM  | 4                  | 25W         | 150 mA             | 10 – 40V DC   | 6W           |
| 79312       | OT25W/4X160C/UNV/DIM  | 4                  | 25W         | 160 mA             | 10 – 40V DC   | 6W           |
| 79313       | OT30W/4X190C/UNV/DIM  | 4                  | 30W         | 190 mA             | 10 – 40V DC   | 7.5W         |
| 79305       | OT32W/4X200C/UNV/DIM  | 4                  | 32W         | 200 mA             | 10 – 40V DC   | 8W           |
| 79314       | OT35W/4X220C/UNV/DIM  | 4                  | 35W         | 220 mA             | 10 – 40V DC   | 9W           |
| 79308       | OT40W/4X230C/UNV/DIM  | 4                  | 40W         | 230 mA             | 10 – 40V DC   | 10W          |
| 79307       | OT40W/4X240C/UNV/DIM  | 4                  | 40W         | 240 mA             | 10 – 40V DC   | 10W          |
| 79304       | OT40W/4X250C/UNV/DIM  | 4                  | 40W         | 250 mA             | 10 – 40V DC   | 10W          |
| 79309       | OT45W/4X260C/UNV/DIM  | 4                  | 45W         | 260 mA             | 10 – 40V DC   | 11W          |
| 79310       | OT45W/4X270C/UNV/DIM  | 4                  | 45W         | 260 mA             | 10 – 40V DC   | 11W          |
| 79303       | OT45W/4X280C/UNV/DIM  | 4                  | 45W         | 280 mA             | 10 – 40V DC   | 11W          |
| 79311       | OT46W/4X290C/UNV/DIM  | 4                  | 46W         | 290 mA             | 10 – 40V DC   | 11.5W        |
| 79301       | OT50W/4X300C/UNV/DIM  | 4                  | 50W         | 300 mA             | 10 – 40V DC   | 12W          |
| 79302       | OT50W/4X320C/UNV/DIM  | 4                  | 50W         | 320 mA             | 10 – 40V DC   | 12.5W        |
| 79300       | OT50W/4X350C/UNV/DIM  | 4                  | 50W         | 350 mA             | 10 – 40V DC   | 12.5W        |

\* Custom output configurations - Constant current output range 150-350mA. Available in 10mA increments.

### Minimum and Maximum Ratings

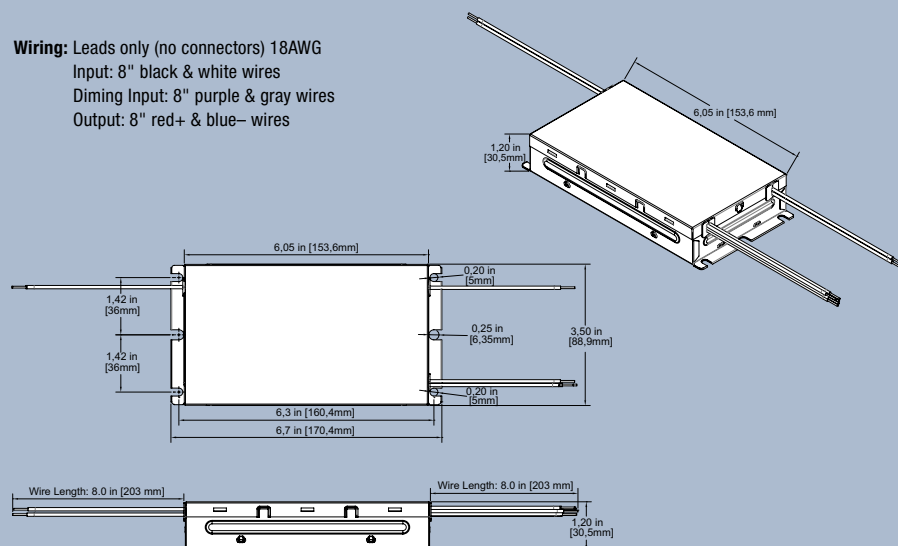
| Parameter                                       | Values                         |
|-------------------------------------------------|--------------------------------|
| Maximum Case Temperature (T <sub>c</sub> point) | 75°C (167°F)                   |
| Operating Temperature                           | -30° to +50°C (-22° to +122°F) |
| Storage Temperature                             | -30° to +80°C (-22° to +176°F) |
| Maximum Relative Humidity                       | 80% (Non-condensing)           |
| Remote Mounting Distance                        | 32 feet                        |

## Specification Data

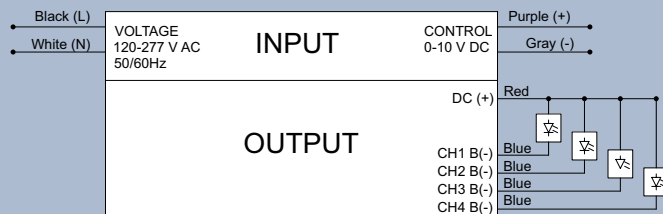
|             |      |
|-------------|------|
| Catalog #   | Type |
| Project     |      |
| Comments    |      |
| Prepared by |      |

## Assembly Diagram

**Wiring:** Leads only (no connectors) 18AWG  
 Input: 8" black & white wires  
 Dimming Input: 8" purple & gray wires  
 Output: 8" red+ & blue- wires



## Wiring Diagram



## Safety Information

**WARNING: ONLY QUALIFIED PERSONNEL SHOULD PERFORM INSTALLATION.**

**TO AVOID ELECTRICAL SHOCK OR COMPONENT DAMAGE, DISCONNECT POWER BEFORE ATTEMPTING INSTALLATION OF THE POWER SUPPLIES AND/OR MODULES.**

Failure to install the power supplies and/or LED modules in accordance with the National Electric Code (NEC), all applicable Federal, State and local electric codes as well as the specific Underwriters Laboratories (UL) safety standards for the installation, location and application may cause serious personal injury, death, property damage and/or product malfunction.

1. Maximum Total LED load, on all four channels combined in any configuration is limited to 50W, unless otherwise noted.
2. Output voltage is limited to 40V DC for any current level.
3. For best performance load all channels evenly.
4. All channels are dimmed simultaneously.

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 OPTOTRONIC is a registered trademark of OSRAM AG.  
 Specifications subject to change without notice.

## Specifications

Power Supply(s) shall be OPTOTRONIC® 50 Watt Multiple Channel, Dimmable with 0-10V type dimmers and 120-277VAC Input Voltage Range (OT50W/x/UNV/DIM). Power Supply(s) shall have (4) output channels with output current of (320mA). Power Supply(s) shall be UL8750 recognized Class 2 power unit(s), Damp rated and FCC 47 CFR Part 15 Class B compliant.

## Warranty

OPTOTRONIC® Products are covered by our LED Module, OPTOTRONIC Power Supply or Control Warranty. For additional details, refer to the latest version of the warranty (LED089) available at [www.sylvania.com](http://www.sylvania.com).

## Packaging

Quantity: 10 pieces/carton  
 Weight: 1.44 lbs each (approx.)  
 15 lbs/carton

### United States

**OSRAM SYLVANIA**  
 100 Endicott Street  
 Danvers, MA 01923  
 1-800-LIGHTBULB

### Trade

Phone: 800-255-5042  
 Fax: 800-255-5043

### National Accounts

Phone: 800-562-4671  
 Fax: 800-562-4674

### OEM/Special Markets

Phone: 800-762-7191  
 Fax: 800-762-7192

### Retail

Phone: 800-842-7010  
 Fax: 800-842-7011

### SYLVANIA Lighting Services

Phone: 800-323-0572  
 Fax: 800-537-0784

### Display/Optic

Phone: 888-677-2627  
 Fax: 855-543-1043

### Canada

**OSRAM SYLVANIA LTD.**  
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 Mississauga, ON L5S 1S4  
 1-800-LIGHTBULB

### Trade

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### Retail

Phone: 800-720-2852  
 Fax: 800-667-6772

### SYLVANIA Lighting Services

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### Mexico

**OSRAM MEXICO**  
 Tultitlan/Edo de Mexico  
 Phone: 011-52-55-58-99-18-50

### ENCELIUM Technologies

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[www.sylvania.com](http://www.sylvania.com)