

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 (V _{AC})	Max Input Current (A _{AC})	Power Factor	Inrush Current (A _{PK})	THD	Surge Protection (kV)	Efficiency	Load Regulation	Dimming Control	Dimming Range	Environmental Rating	UL File #
Max 50W	120-277V AC 50/60Hz	0.50A @ 120V 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				Output Per Channel		
Item Number	Ordering Abbreviation	Number of Channels	Total Power	Current (mA)	Voltage Range	Max Load (W)
79313	OT30W/4x190C/UNV/DIM	4	30W	190 mA	10 – 40V DC	7.5W
79314	OT35W/4x220C/UNV/DIM	4	35W	220 mA	10 – 40V DC	9W
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
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

Minimum and Maximum Ratings

Parameter	Values
Maximum Case Temperature (T _c 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

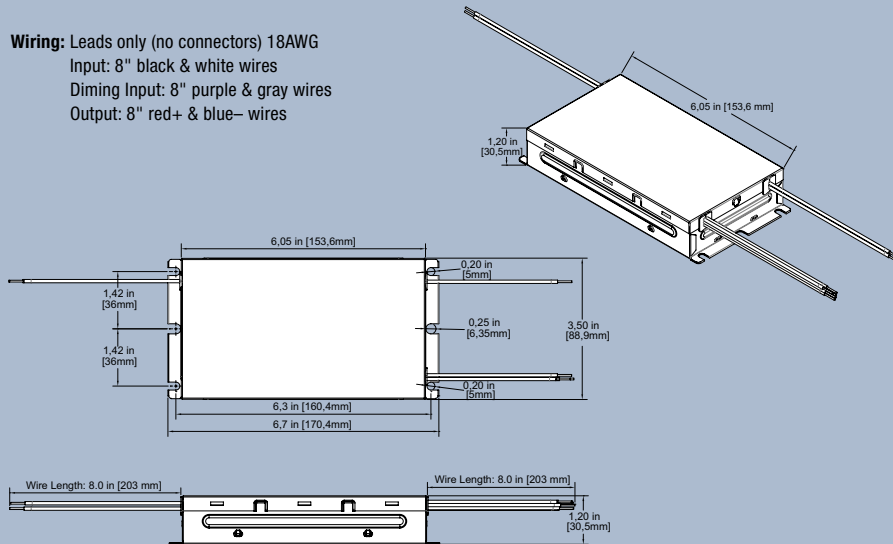
Catalog #	Type
Project	
Comments	
Prepared by	

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.

Assembly Diagram

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



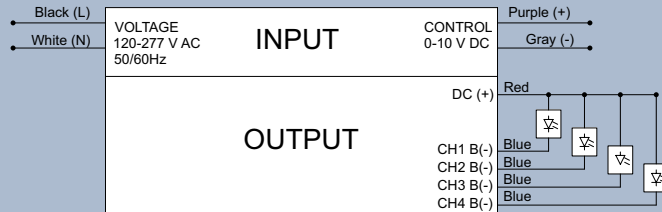
Warranty

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.osramamericas.com

Packaging

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

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.