

OPTOTRONIC®

Electronic 10.5V DC & 12V DC LED Power Supplies



OPTOTRONIC power supplies are compact and electronically stabilized. The wide range of input voltage on select models, from 100 to 277V AC, enables worldwide use on single-phase AC power lines. These supplies are available in 10.5Vdc and 12Vdc outputs and are protected against open circuit, short circuit, overload and overheat-ing conditions.

Key Features & Benefits

- Damp rated designs available for use in outdoor applications
- Wide input voltage range: 100-277V AC (select models)
- Broad ambient temperature range for use in extreme application conditions
- Electronically stabilized output voltage with low line ripple
- Short circuit, overload and overheat protection for sustained performance
- High power factor and efficiency
- Compact enclosures for variety of applications and fixture designs
- UL Class 2 output for safe operation
- Exceptional line and load regulation

Product Offering

Ordering Abbreviation	Output Wattage	Output Voltage
OT6/100-120/10CE	6	10.5
OT20/120-240/10E	20	10.5
OT25/120/10	25	10.5
OT50/120-277/10E	50	10.5
OT10/120-240/12	10	12
OT25/120-277/12	25	12
OT60/120-277/12	60	12

LED power supplies compatible with: 10.5V or 12V LED modules

Application Information

Applications

- Ambience lighting inside furniture
- Backlighting
- Compact installations
- Effect lighting
- General lighting
- Low & medium power applications
- Panel lighting
- Path and roadway marking
- Signs
- Step and seat marking
- Wall washing

Specifications and Certifications

UL US OPTOTRONIC LED power supplies are UL1310 and UL48 Recognized for the US and Canada Class 2 Unit.



OT6, OT25 and OT50 are CSA approved.



RoHS compliant (except for Item# 51505)

This light source meets restrictions on hazardous substances.

FCC 47CFR Part 15 compliant



Specification Data

Catalog #	Type
Project	
Comments	
Prepared by	Date

Ordering Information

Item Number	Ordering Abbreviation	Nominal Input Voltage (V)	Nominal Input Current (A)	Power Factor	Nominal Input Power (W)	Output Voltage (VDC)	Output Power Range (W)	Max. Line Ripple (V)	Remote ¹ Mounting (ft)	UL File #	Location Rating
10V LED Power Supplies											
51502	OT6/100-120/10CE	120	0.11	0.55	7.5	10.5±0.5	0.4-6	±0.2V	32	E258264	Damp
51599 ²	OT20/120-240/10E	120 240	0.22 0.11	0.92	24	10.5±0.5	1-20	±1.1V	12	E220096	Damp
51505	OT25/120/10	120	0.28	0.92	31	10.5±1.0	3-25	±1.1V	10	E220096	Dry
51509 ³	OT50/120-277/10E	120 277	0.51 0.22	0.99	61	10.5±1.0	0.4-50	±0.2V	32	E258264	Damp
12V LED Power Supplies											
51601	OT10/120-240/12	120 240	0.18 0.09	0.6	13	12±1.0	1-10	±1.1V	12	E258264	Damp
51602	OT25/120-277/12	120 277	0.26 0.12	0.95	30	12±1.0	1-25	±1.1V	10	E258264	Damp
51603	OT60/120-277/12	120 277	0.64 0.28	0.98	75	12±1.0	1-60	±1.1V	32	E258264	Damp

1. Although it is possible to exceed the remote mounting distances, the installer and/or end user must take precautions to prevent and/or test the effects of EMI (electromagnetic interference).

2. 51599 replaces 51506 (OT25/120/10CORD), which is discontinued.

3. 51509 replaces 51508 (OT50/120/10), which is discontinued.

Ordering Guide

OT	6	/	100-120	/	10	CE
OPTOTRONIC®	Output Wattage		Input Voltage (AC)		Output Voltage (DC)	Circular External

Minimum and Maximum Ratings

Parameter	Power Supply	Values
Input Voltage Range (Min/Max)	OT6 OT10 and OT20 OT25/10V OT25/12V, OT50 and OT60	90-132 VAC 108-254 VAC 108-132 VAC 108-305 VAC
Input Frequency		50/60Hz
Ambient Temperature Range	OT6 and OT25/10V OT10, OT25/12V and OT60 OT20 OT50	-20°C through +50°C -25°C through +50°C -30°C through +60°C -25°C through +60°C
Max. Case Temperature	OT6 and OT20 OT10, OT25 and OT60	70°C 90°C

Assembly and Wiring Diagrams

OT-6 Case:

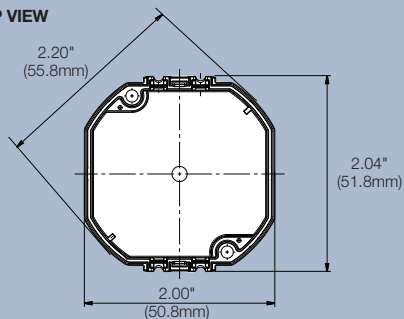
Packaging:

Quantity: 20 pieces/carton
Weight: 0.12 lbs each (approx.)
3 lbs/carton

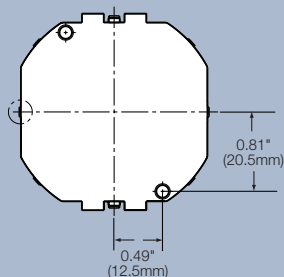
Wiring: Leads only (no connectors)

Input: (18AWG wire)
Output: (18AWG wire)

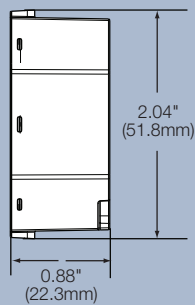
TOP VIEW



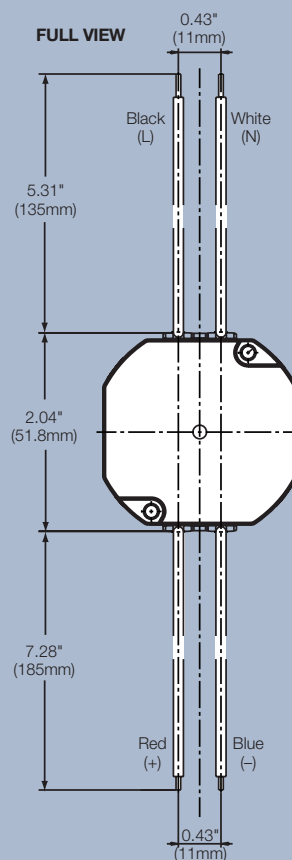
BOTTOM VIEW



SIDE VIEW



FULL VIEW



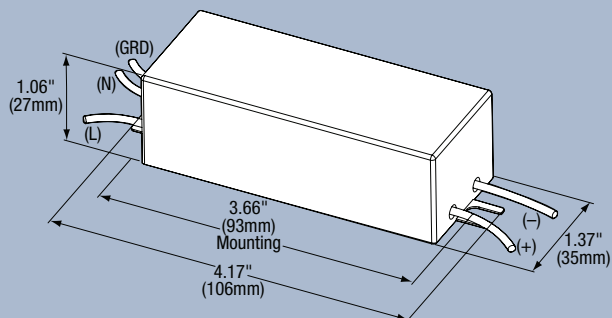
OT-10 Case:

Packaging:

Quantity: 60 pieces/carton
Weight: 0.404 lbs each (approx.)
24.25 lbs/carton

Wiring: Leads only

(18" 18AWG wire)



Green (GRD)

White (N)

Black (L)

Red (+)

Black (-)

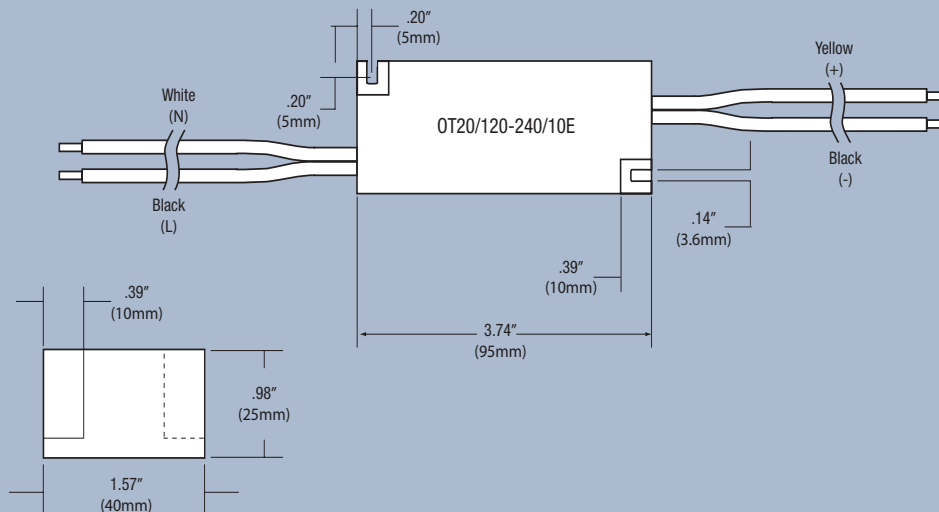
OT-20 Case:

Packaging:

Quantity: 80 pieces/carton
Weight: 0.41 lbs each (approx.)
32.4 lbs/carton

Wiring: Leads only

(6" 18AWG)



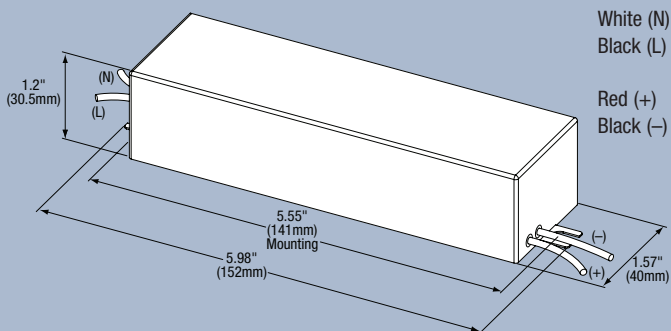
Assembly and Wiring Diagrams (continued)

OT-25W/12V Case:

Packaging:

Quantity: 24 pieces/carton
Weight: 1.17 lbs each (approx.)
28.0 lbs/carton

Wiring: Leads only
(18" 18AWG)

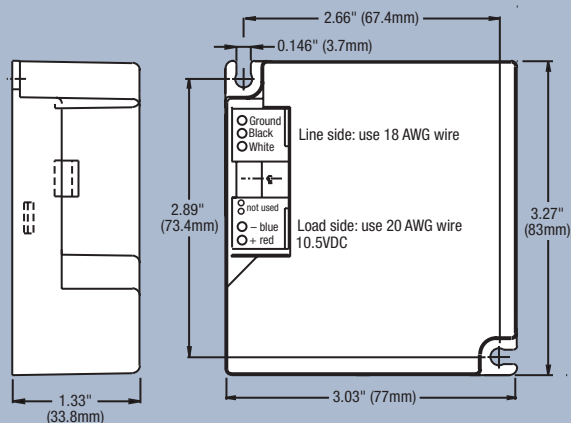


OT-25W/10V Case:

Packaging:

Quantity: 72 pieces/carton
Weight: 0.385 lbs each (approx.)
30.43 lbs/carton

Wiring: Connectors only
(No leads provided) Use solid or tinned copper wire only

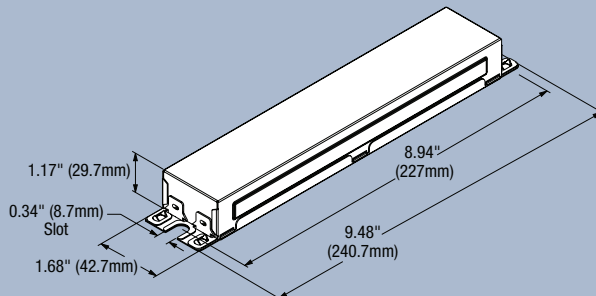


OT-50W Case:

Packaging:

Quantity: 10 pieces/carton
Weight: 1.35 lbs each (approx.)
14.00 lbs/carton

Wiring: Leads only (no connectors)
Input: 9" (18AWG wire)
black & white wires
Output: 9" (18AWG wire)
red+ & blue- wires

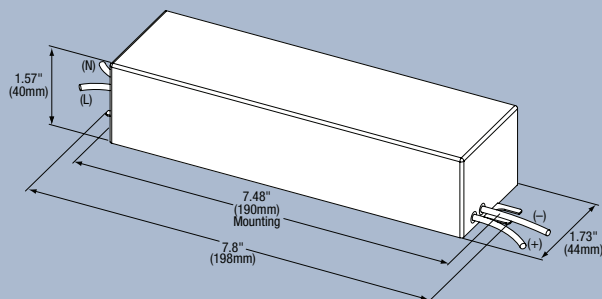


OT-60W Case:


Packaging:

Quantity: 20 pieces/carton
Weight: 1.25 lbs each (approx.)
25.00 lbs/carton

Wiring: Leads only
(18" 18AWG wire)



For complete power supply and LED module details, refer to the OSRAM SYLVANIA LED Systems Specification Guide or go to www.sylvania.com

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Specifications subject to change without notice.

 the system solution®

Warranty

OPTOTRONIC® Products are covered by our LED module, OPTOTRONIC Power Supply or Control Warranty. For additional information or to download the warranty registration form, refer to the latest version of the warranty available in the Literature section of www.sylvania.com/LED.

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