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 overheating 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
- Integrated dimming (select models)

- 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
0T6/100-120/10CE*	6	10.5
0T20W/10V/120-240V*	20	10.5
0T25/120/10*	25	10.5
OT50W/10V/UNV	50	10.5
0T10W/12V/120-240V	10	12
0T25W/12V/UNV	25	12
0T60W/12V/UNV**	60	12
OT60W/12V/UNV/DIM**	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



OPTOTRONIC LED power supplies are UL1310 and UL48 Recognized for the US and Canada Class 2 Unit.
OT10W, OT25W, OT50W, OT60W and OT60W/DIM are listed in the UL Sign Components Manual (SAM)



OT50W, OT60W and OT60W/DIM are CSA approved.



(except for Item# 51505)

This light source meets restrictions

FCC 47CFR Part 15 compliant



^{*}Discontinued

^{**}New Model

Specification Data

Catalog #	Туре
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 P	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	0T20W/10V/120-240V*	120 240	0.22 0.11	0.92	24	10.5±0.5	1-20	±1.1V	12	E220096	Damp
51505	0T25/120/10*	120	0.28	0.92	31	10.5±0.5	3-25	±1.1V	10	E220096	Dry
51509 ²	OT50W/10V/UNV	120 277	0.51 0.22	0.99	61	10.5±1.0	0.4-50	±0.2V	32	E258264	Damp
12V LED P	Power Supplies										
51601	0T10W/12V/120-240V	120 240	0.18 0.09	0.6	13	12±1.0	1-10	±1.1V	12	E258264	Damp
51602	0T25W/12V/UNV	120 277	0.26 0.12	0.95	30	12±1.0	1-25	±1.1V	10	E258264	Damp
51632 ³	0T60W/12V/UNV	120 277	0.60 0.26	0.99	71	12±1.0	1-60	±1.0V	32	E320395 E258264	Damp

Dimmable 12V LED Power Supply

ltem Number	Ordering Abbreviation	Nominal Input Voltage (V)	Nominal Input Current (A)	Power Factor	Nominal Input Power (W)	Output Voltage Range (VDC)	Output Power Range (W)	Max. Line Ripple (V)	Dimming Mode	Dimming Control	Dimming Range	UL File #	Location Rating
51633	OT60W/12V/UNV/DIM	120 277	0.60 0.26	0.99	71	12±1.0	1-60	+/- 1.0V	PWM	0-10V DC	10 –100%	E320395 E258264	Damp

*Discontinued

Ordering Guide

0T	10W	1	12V	1	120-240	
OPTOTRONIC®	Output Wattage		Output Voltage		Input Voltage	

Minimum and Maximum Ratings

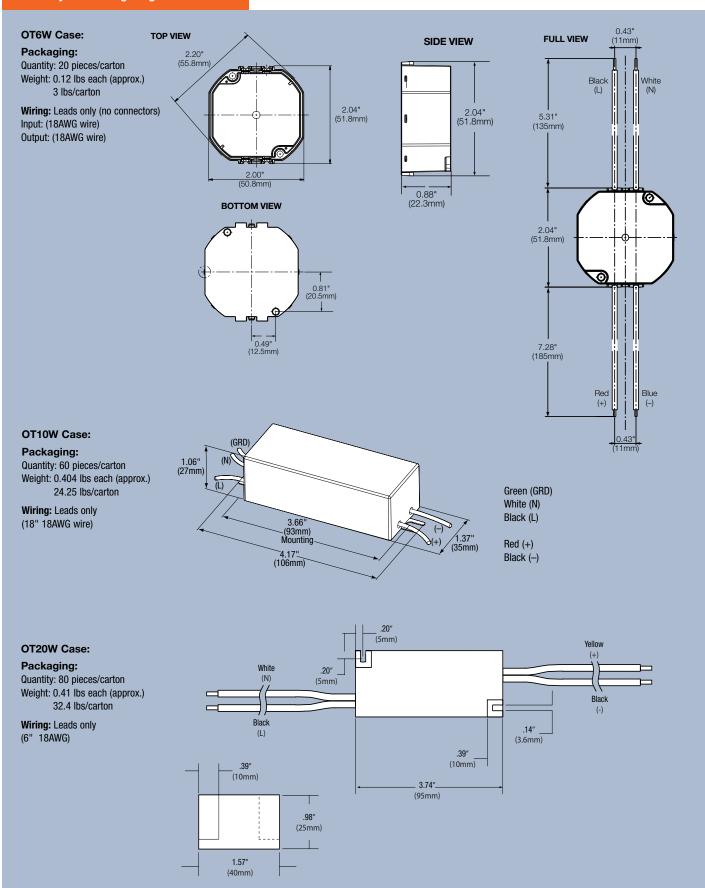
Parameter	Power Supply	Values
Input Voltage Range (Min/Max)	OT6	90-132 VAC
	OT10 and OT20	108-254 VAC
	0T25/12V, 0T50 and 0T60	108-305 VAC
Input Frequency		50/60Hz
Ambient Temperature Range	OT6	-20°C through +50°C
	OT10, OT25/12V and OT60	-25°C through +50°C
	0T20	-30°C through +60°C
	OT50	-25°C through +60°C
Max. Case Temperature	OT6 and OT20	70°C
	OT10, OT25	90°C
	OT60	80°C

^{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).

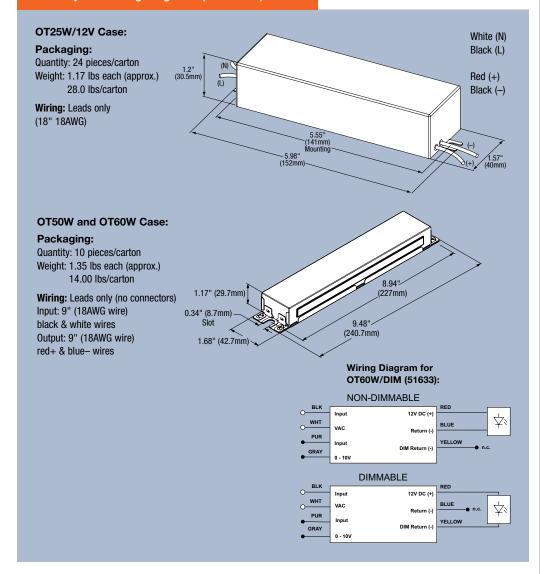
^{2. 51509} replaces 51506 (0T25/120/10CORD), which is discontinued.

^{3. 51632} replaces 51603 (OT60/12V/UNV), which is discontinued.

Assembly and Wiring Diagrams



Assembly and Wiring Diagrams (continued)



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

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 (LED089) available in the Literature section of www.osram.com/LED.

Product Warranty: 3 years System Warranty: 5 years

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