OPTOTRONIC® Electronic 10V DC LED Power Supplies

Power Supply Guide

OT6/100-120/10CE OT20/120-240/10E OT25/120/10 OT25/120/10CORD OT50/120/10 OT50/120-277/10E LED power supplies compatible with: 10.5V LED Modules

Key System Features

- Wide input voltage range
- Isolated output
- · UL Class 2 output
- Lona life
- Short circuit and overload protection
- Remote mounting possible
- OT6, OT20, OT25/CORD, and OT50 models rated for outdoor, damp locations

OSRAM OPTOTRONIC power

supplies are compact and electronically stabilized. The wide range of input voltage, on select models, from 100 to 277 VAC enables worldwide use on single-phase AC power lines. These supplies are available in 10Vdc outputs.

OPTOTRONIC power supplies are protected against open circuit, short circuit, overload and overheating conditions. They are UL recognized and FCC compliant.



System Information

OSRAM SYLVANIA has introduced a full line of LED modules (Light Emitting Diodes) and power supply products. As a result of the steady increase in their luminous efficiency, LEDs are becoming an attractive alternative in general lighting.

LED modules can be used in a wide variety of applications due to our variable module design, module geometries, and range of available colors.

Name

BACKlight

BACKlight 2G

LINEARlight Rigid

BACKlight 2G BL04

Application Information

OSRAM OPTOTRONIC

power supplies are ideally suited for:

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

Description 10.5V LED Modules 10.5V LED Modules LINEARlight FLEX SIDELED 10.5V Flexible LED Strip 10.5V BL02 LED Modules 10.5V BL04 LED Modules

The LEDs are available in many different configurations to meet the demands of these applications. For

additional information about OSRAM LED systems, contact OSRAM SYLVANIA or review the following literature:

For additional LED ordering information, contact OSRAM SYLVANIA.

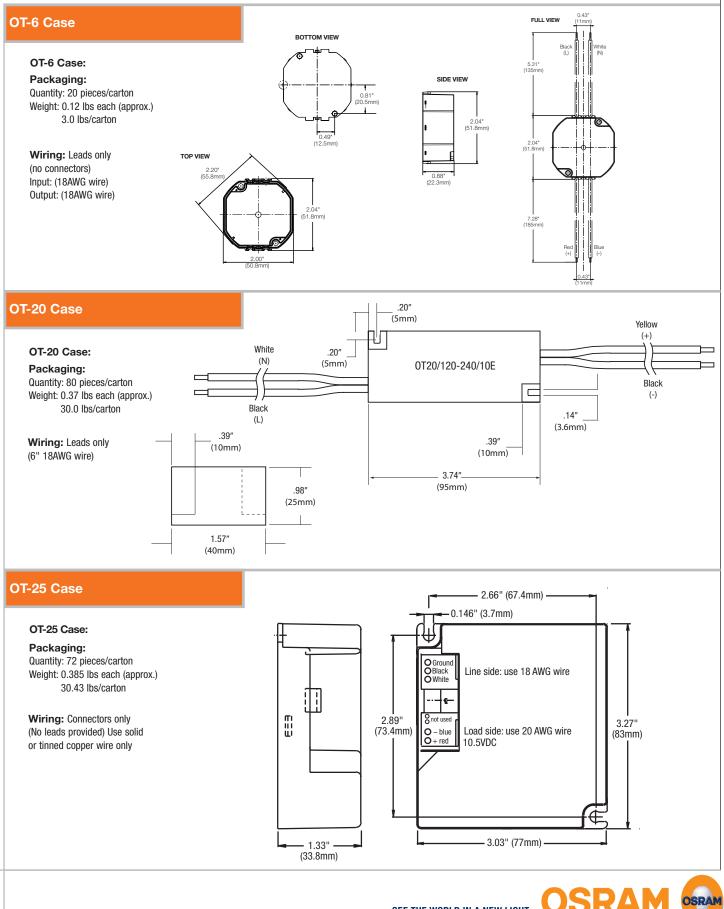
Literature Ordering Code LED001 LED005 LED012 LED033 LED046



SEE THE WORLD IN A NEW LIGHT

ECS049R7 - 4/2008

Electronic LED Power Supply OPTOTRONIC® 10V DC Supplies



SEE THE WORLD IN A NEW LIGHT

OPTOTRONIC® LED Power Supplies (DC Output)

Ordering Guide Item Number-51502 OT 6/ 100-120/ 10 CE-Circular External* Specifications subject to change **OPTOTRONIC** -Output Voltage (DC) without notice. Output Wattage (6 watts) Input Voltage (AC) * Additional descriptors are as follows: CE = Circular External, E = External, CORD = Wall plug OT-50/120 Case OT-50/120 Case: Wiring: Leads only (no connectors) Packaging: Input: 9" (18AWG wire) Quantity: 20 pieces/carton black & white wires Weight: 1.22 lbs each (approx.) Output: 9" (18AWG wire) 24.70 lbs/carton red+ & blue- wires OT-50/120-277 Case: Packaging: Mounting Height Quantity: 10 pieces/carton Length Weight: 1.35 lbs each (approx.) 8.70 mm 14.00 lbs/carton Slot Length Width **Dimensions:** Overall: 9.5" L x 1.7" W x 1.18" H Mounting: 8.90" OT-50/120 Case SIDE VIEW OT-25/120/10CORD Case: Packaging: Quantity: 12 pieces/carton 1.75" (44.45mm) Weight: 1.18 lbs each (approx.) 14.20 lbs/carton Wiring: Leads only (no connectors) **TOP VIEW** Input: 6' (18AWG wire) with wall plug Black – White + AC Input Line Output 10.5 VDC Output: 6' (18AWG wire) black & white wires Γ 2.75" 1.42" (36mm) (70mm) Mounting: 5" - (127mm) -5.63" (143mm) For complete power supply and LED module details, refer to the OSRAM SYLVANIA LED Systems Specification Guide or go to www.sylvania.com



10.5 V DC OPTOTRONIC® LED Power Supply

OPTOTRONIC® LED Power Supplies (DC Output)

ltem Number	Description	Nominal Input Voltage (VAC)	Nominal Input Current (Amps)	Power Factor (@ 120V)	Output Voltage (VDC)	Min. Output Power (W)	•		Remote* Mounting (ft)	with	ompat with OT DIM	<u>ible</u> with OT RGB Controls	Location Rating
51502	0T6/100-120/10CE	100-120	0.12@120V	0.55	10.5±0.5	0.4	6	±0.2V	32	YES	YES	YES	Dry+Damp
51599	0T20/120-240/10E	120-240	0.3A@120V	0.92	10.5±0.5	1	20	±1.1V	12	NO	NO	NO	Dry+Damp
51505	OT25/120/10	120	0.26@120V	0.90	10.5±1.0	3	25	±1.1V	10	NO	NO	NO	Dry
51508	OT50/120/10	120	0.52@120V	0.90	10.5±1.0	10	50	±1.1V	8	NO	NO	NO	Dry+Damp
51509	0T50/120-277/10E	120-277	0.51@120V 0.22@277V	0.99	10.5±1.0	0.4	50	±0.2V	32	YES	YES	YES	Dry+Damp
51506	0T25/120/10C0RD	120	0.42@120V	0.64	10.5±0.5	0.5	25	±0.5V	58	YES	YES	YES	Dry+Damp

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

10.5 V DC **OPTOTRONIC® LED** Power Supply

Additional Specifications

UL Class 2 Outputs Input Voltage Range: OT6: 90 - 132 VAC 0T20: 108 - 254 VAC 0T25, 0T25/CORD, 0T50/120: 108-132 VAC 0T50/120-277: 108 - 305V Input Frequency: 50/60Hz Efficiency: 80% Typical Ambient Temp. Range: -20°C through +50°C 0T20: -30°C through +60°C 0T50/120-277: -25°C through +60°C Max. Case Temp.: 0T6, 0T20: 70°C 0T25, 0T25/CORD, 0T50/120: 90°C 0T50/120-277: 90°C

OT6, OT20, OT25, OT50: UL 1310, UL48 Recognized for US & Canada Class 2 Unit (UL file #E248522 & E220096)



0T25/cord: UL1310 listed Class 2 unit (UL file# E245572)



0T6, 0T25 & 0T50 are CSA approved FCC 47CFR Part 15 compliant OT6, OT20: Class B (residential) OT25, OT50: Class A (commercial non-consumer) **RoHS** compliant (except for NAED 51505 & 51508)

System Life / Warranty

OPTOTRONIC LED Power Supply Products are covered by our LED system warranty, a comprehensive LED module and power supply system warranty. For additional details, refer to our latest version of the LED warranty bulletin.

OSRAM and OPTOTRONIC are registered trademarks of OSRAM GmbH.

