

OPTOTRONIC®

Electronic Constant Current LED Power Supplies



OPTOTRONIC Constant Current power supplies are compact, electronically stabilized and specially developed to operate Constant Current LED modules. These power supplies are designed for AC line voltage applications. The OT9W/350C/10-24V/DIM is a dimmable driver designed for operation on DC supply systems. OPTOTRONIC power supplies are protected against open circuit, short circuit, overload and overheating conditions.

Key Features & Benefits

- Damp rated designs available for use in outdoor applications
- Short circuit and overload protection for sustained performance
- Small enclosures for compact fixture designs
- Broad range of constant current outputs available for a variety of LED array designs
- UL Class 2 output for safe operation

Product Offering

Item Number	Ordering Abbreviation	Output Wattage	Output Current
51524*	OT3W/350C/120-240V	3	350
51525	OT9W/350C/120V	9	350
51526**	OT9W/350C/10-24V/DIM	9	350
51635	OT10W/350C/120-240V	10	350
51638**	OT17W/700C/120V/RL	17	700
51597	OT17W/700C/UNV	17	700
51527	OT25W/700C/UNV	25	700
51636	OT25W/1040C/UNV	25	1040
51530	OT40W/1110C/UNV	40	1110
51529	OT40W/1400C/UNV	40	1400

*Discontinued

**Dimmable

Application Information

Applications

- Area illumination
- Directional lighting
- Path and roadway lighting
- Signage

Specifications and Certifications



OPTOTRONIC Constant Current LED power supplies are UL Recognized for the US and Canada Class 2 Units.



OT9 is CSA approved.



This light source meets restrictions on hazardous substances.

FCC 47CFR Part 15 compliant



Ordering Information

AC Input

Item Number	Ordering Abbreviation	Nominal Input Voltage (V)	Nominal Input Current (A)	Power Factor	Nominal Input Power (W)	Output Current (mA)	Output Voltage Range (VDC)	Output Power Range (W)	UL File #	Location Rating
51524*	OT3W/350C/120-240V	120 240	0.1 0.05	0.50	6	350 ± 17.5	4-12	1-3	E258264 E220096 E245572	Dry
51525	OT9W/350C/120V	120	0.18	0.50	11	350 ± 17.5	2-25	1-8.5	E258264 E248522	Damp
51635	OT10W/350C/120-240V	120 240	0.2 0.1	0.60	14	350 ± 21	2-29	1-10	E258264	Damp
51638**	OT17W/700C/120V/RL	120	0.18	0.95	17	700 ± 35	16-24	11-17	E320395	Dry
51597	OT17W/700C/UNV	120 277	0.18 0.08	0.92	20	700 ± 35	12-24	9-17	E220096 E245572	Damp
51527	OT25W/700C/UNV	120 277	0.26 0.12	0.92	30	700 ± 35	18-36	13-25	E220096 E245572	Damp
51636	OT25W/1040C/UNV	120 277	0.26 0.12	0.92	30	1040 ± 52	12-24	12-25	E220096 E245572	Damp
51530	OT40W/1110C/UNV	120 277	0.41 0.18	0.92	45	1110 ± 55	18-36	20-40	E220096 E245572	Damp
51529	OT40W/1400C/UNV	120 277	0.41 0.18	0.92	45	1400 ± 70	12-24	17-40	E220096 E245572	Damp

Notes:

1. Remote Mounting: For NAED #51524 – 50ft, all other NAEDs – 32ft. Although it is possible to exceed the remote mounting distances given, the installer and/or end user must take precautions to prevent and/or test the effects of EMI (electromagnetic interference).
2. Input frequency: 50/60 Hz

*Discontinued

** NAED 51638 is dimmable using leading or trailing edge phase cut dimmers. Compatible with incandescent dimmers.

DC Input

Item Number	Ordering Abbreviation	Nominal Input Voltage (V)	Nominal Input Current (A)	Power Factor	Nominal Input Power (W)	Output Current (mA)	Output Voltage Range (VDC)	Output Power Range (W)	UL File #	Dimming Mode	Dimming Range	Dimming Frequency	Control Voltage	Location Rating
51526*	OT9W/350C/10-24V/DIM	10 24	1.1 0.5	0.5	11	350 ± 17.5	0-24.5	0-8.5	E248522	PWM	0-100%	244Hz	0-10VDC	Damp

*Dimmable

1. The OT9/10-24/350 DIM E is compatible with 51509-OT50/120-277/10E, 51512-OT20/120-240/24S, 51514-OT75/120-277/24E. Use a 0-10V controller or 100k ohm potentiometer for dimming.
2. Remote Mounting: 32 ft. Although it is possible to exceed the remote mounting distances given, the installer and/or end user must take precautions to prevent and/or test the effects of EMI (electromagnetic interference).
3. Input frequency: 50/60 Hz

Ordering Guide

OT	17W	/	700C	/	120V	/	RL
OPTOTRONIC®	Output Wattage		Output Current		Input Voltage (AC or DC - Model specific UNV = 120-277V)		RL=Resistive Load DIM=Dimmable

Minimum and Maximum Ratings

Parameter	Item Number	Values
Input Voltage	51524	108-254VAC
	51525, 51638	90-132VAC
	51635	95-265VAC
	51597, 51527, 51636, 51530 & 51529	90-305VAC
	51529	10-24Vdc
Ambient Temperature Range	51638	0°C through +50°C
	51524, 51525 & 51526	-20°C through +60°C
	51635	-25°C through +50°C
	51597, 51527, 51636, 51530 & 51529	-30°C through +70°C (1% de-rating per °C from 60°C)
Max. Case Temperature	51524 & 51525	80°C
	51635, 51597, 51638, 51527, 51636, 51530 & 51529	90°C
	51526	75°C

Assembly and Wiring Diagrams

OT-3 Case:

Packaging:

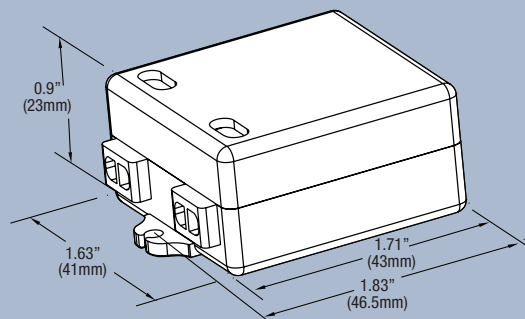
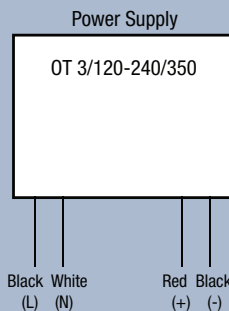
Quantity: 20 pieces/carton
Weight: 0.1 lbs each (approx.)
2 lbs/carton

Dimensions:

Overall: 1.71" L x 1.63" W x 0.90" H
Mounting: 1.83"

Wiring:

Leads only
(6" 18AWG)



OT9 Case:

Packaging:

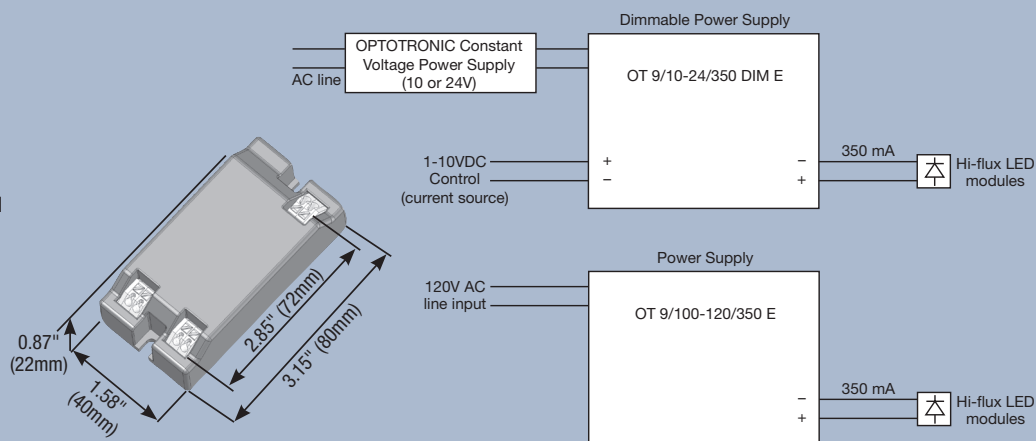
Quantity: 50 pieces/carton
Weight: 0.11 lbs each (approx.)
5.87 lbs/carton

Dimensions:

Overall: 3.15" L x 1.58" W x 0.87" H
Mounting: 2.85"

Wiring:

Connectors only
(No leads provided).
Use solid or tinned AWG 18
copper wire only



OT10 Case:

Packaging:

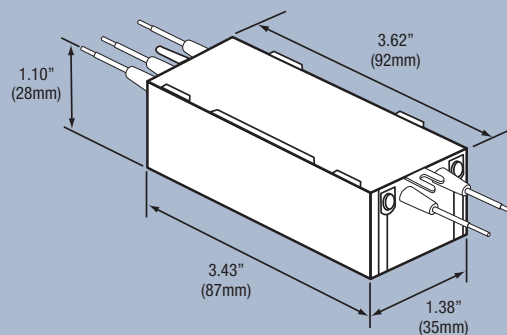
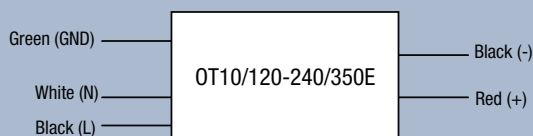
Quantity: 60 pieces/carton
Weight: 0.36 lbs each (approx.)
22.0 lbs/carton

Dimensions:

Overall: 3.43" L x 1.38" W x 1.10" H
Mounting: 3.62"

Wiring:

Leads only
(18" 18AWG)



Assembly and Wiring Diagrams (continued)

OT17 & OT25 Case:

Packaging:

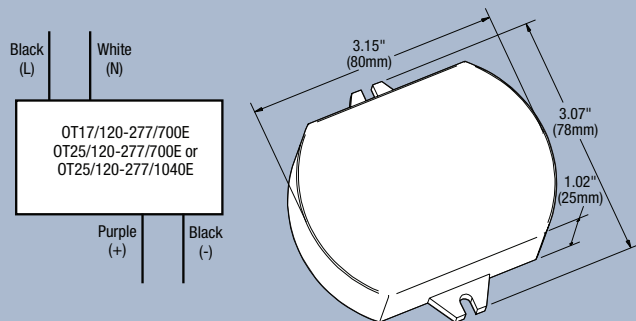
Quantity: 60 pieces/carton
Weight: 0.50 lbs each (approx.)
30.0 lbs/carton

Dimensions:

Overall: 3.07" L x 3.15" W x 1.02" H
Mounting: 2.76"

Wiring: Leads only

(6" 18AWG)



OT17 DIM Case:

Packaging:

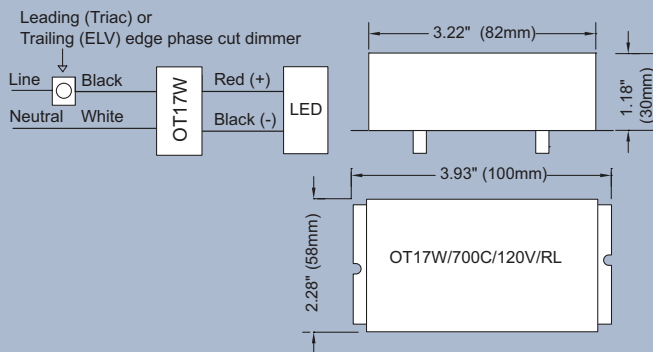
Quantity: 50 pieces/carton
Weight: 0.78 lbs each (approx.)
39.0 lbs/carton

Dimensions:

Overall: 3.93" L x 2.28" W x 1.18" H
Mounting: 3.93"

Wiring: Leads only

(6" 18AWG)



OT40 Case:

Packaging:

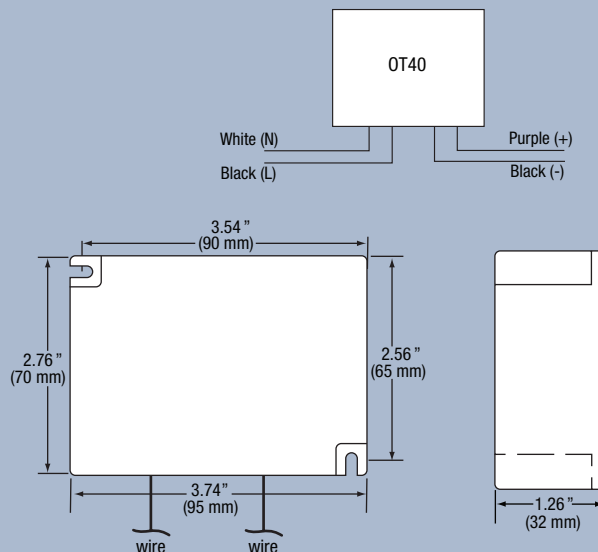
Quantity: 50 pieces/carton
Weight: 0.87 lbs each (approx.)
43.4 lbs/carton

Dimensions:

Overall: 3.74" L x 2.76" W x 1.26" H
Mounting: 3.54"

Wiring: Leads only

(6" 18AWG)



Specification Data

Catalog #

Project

Comments

Prepared by

Date

Type

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 available at www.sylvania.com/LED.

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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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