



OPTOTRONIC® LED Drivers and Power Supplies Reference guide

Light is OSRAM

OSRAM

Powerful, customized solutions you can depend on

The OSRAM Family of OPTOTRONIC® LED power supplies features a complete portfolio of constant voltage and constant current drivers. The following pages showcase the OPTOTRONIC family of products by form factor and include detailed specifications.

All OPTOTRONIC LED power supplies meet the highest industry standards for robust performance and reliability and are backed by a 5-year warranty.

Build your own LED system with our new design-in web tools. Pair an OSRAM PrevaLED® light engine with an OPTOTRONIC power supply and see the results! Get started today at www.osram.us/dstools.

For more information about OPTOTRONIC LED power supplies, visit www.osram.us/optotronic.



OPTOTRONIC® LED Drivers and Power Supplies

Portfolio Selection Map

Constant Current Drivers

Indoor			Outdoor*	
0-10V	Emergency Driver	DEXAL	0-10V	DALI
120-277V				
OT 30W	OTi EM 30***	OTi DX 30W*	OT 50W*	OTi 60W*
OT 50W	OTi EM 30 SLIM			
OTi 20W*	OTi EM 50***	OTi DX 50W*	OT 100W*	
OTi 25W*	OTi EM 50 SLIM			
OTi 30W*		OTi DX 85W*	OT 180W*	
OTi 40W*			OTi 50W	
OTi 48W*			OTi 95W*	
OTi 50W*			OTi 100W*	
OTi 55W			OTi 200W	
OTi 85W*				
Current Select Drivers				
OT 35W				
OT 50W				
OT 55W				
347V				
OTi 30W*			OT 100W*	
OTi 48W*			OT 180W*	
OTi 50W*				
OTi 85W**			OTi 95W	

*Programmable and Dimmable

**Indoor drivers available only in 347-480V.

***Compatible with both 8x2 and 4x4 Battery Packs.

Constant Voltage Power Supplies

Indoor/Outdoor	
12V	24V
120-277V	
OT 20W	OT 20W
OT 60W	OT 50W
OT 60W DIM	OT 96W
	OT 96W JBX
	OT 96W DIM

OPTOTRONIC® Constant Current Linear Drivers



No.	NAED	Ordering Description	Input Voltage (V _{AC})	Max Output Power (W)	Output Current (mA)	Output Voltage Range (V _{DC})	Dimensions
120-277V							
1	57453	OTi 20/120-277/0A7 DIM-1 L AUX G2	120-277V	20	150-700	10-55	11.02"l x 1.15"w x 1.0"h
2	57431	OTi 20/120-277/0A7 DIM-1 L G2	120-277V	20	150-700	10-55	11.02"l x 1.15"w x 1.0"h
3	57454	OTi 30/120-277/1A0 DIM-1 L AUX G2	120-277V	30	150-1050	10-55	11.02"l x 1.15"w x 1.0"h
4	57433	OTi 30/120-277/1A0 DIM-1 L G2	120-277V	30	150-1050	10-55	11.02"l x 1.15"w x 1.0"h
5	57455	OTi 48/120-277/2A0 DIM-1 L AUX G2	120-277V	48	700-2000	10-55	11.02"l x 1.15"w x 1.0"h
6	57434	OTi 48/120-277/2A0 DIM-1 L G2	120-277V	48	700-2000	10-55	11.02"l x 1.15"w x 1.0"h
7	57456	OTi 50/120-277/1A4 DIM-1 L AUX G2	120-277V	50	400-1400	10-55	11.02"l x 1.15"w x 1.0"h
8	57452	OTi 50/120-277/1A4 DIM-1 L G2	120-277V	50	400-1400	10-55	11.02"l x 1.15"w x 1.0"h
9	57420	OTi 85/120-277/2A3 DIM-1 L	120-277V	85	700-2300	10-55	16.73"l x 1.16"w x 1.0"h
10	57421	OTi 85/120-277/2A3 DIM-1 L AUX	120-277V	85	700-2300	10-55	16.73"l x 1.16"w x 1.0"h
11	57422	OTi 85/120-277/2A3 DIM L	120-277V	85	700-2300	10-55	16.73"l x 1.16"w x 1.0"h
12	57424	OTi 85/120-277/2A3 DIM-1 L HB*	120-277V	85	700-2300	10-55	16.73"l x 1.16"w x 1.0"h
13	57425	OTi 85/120-277/2A3 DIM-1 L HB* AUX	120-277V	85	700-2300	10-55	16.73"l x 1.16"w x 1.0"h
14	57426	OTi 85/120-277/2A3 DIM L HB*	120-277V	85	700-2300	10-55	16.73"l x 1.16"w x 1.0"h
15	57435	OT 35W/UNV/0A75 CS L	120-277V	35	750-2300	20-46	11"l x 1.2"w x 1.0"h
16	57436	OT 35W/UNV/0A75 CS DIM L	120-277V	35	750-2300	20-46	11"l x 1.2"w x 1.0"h
17	57439	OT 50W/UNV/1A4 CS L	120-277V	50	750-2300	20-46	11"l x 1.2"w x 1.0"h
18	57440	OT 50W/UNV/1A4 CS DIM L	120-277V	50	750-2300	20-46	11"l x 1.2"w x 1.0"h
19	57437	OT 55W/UNV/1A2 CS L	120-277V	55	750-2300	20-46	11"l x 1.2"w x 1.0"h
20	57438	OT 55W/UNV/1A2 CS DIM L	120-277V	55	750-2300	20-46	11"l x 1.2"w x 1.0"h

*HB refers to highbay versions that have 6kV surge protection

OPTOTRONIC® Constant Current Linear Drivers



No.	NAED	Ordering Description	Input Voltage (V _{ac})	Max Output Power (W)	Output Current (mA)	Output Voltage Range (V _{bc})	Dimensions
347V							
21	79669	OTi 30/347/1A0 DIM-1 L AUX	347V	30	150-1050	10-55	11"l x 1.2"w x 1.0"h
22	79679	OTi 30/347/1A0 DIM L	347V	30	350-1050	10-55	11"l x 1.2"w x 1.0"h
23	79675	OTi 30/347/1A0 DIM-1 L	347V	30	350-1050	10-55	11"l x 1.2"w x 1.0"h
24	79671	OTi 48/347/2A0 DIM-1 L AUX	347V	48	700-2000	10-55	11"l x 1.2"w x 1.0"h
25	79680	OTi 48/347/2A0 DIM L	347V	48	700-2000	10-55	11"l x 1.2"w x 1.0"h
26	79677	OTi 48/347/2A0 DIM-1 L	347V	48	700-2000	10-55	11"l x 1.2"w x 1.0"h
27	79670	OTi 50/347/1A4 DIM-1 L AUX	347V	50	400-1400	10-55	11"l x 1.2"w x 1.0"h
28	79678	OTi 50/347/1A4 DIM L	347V	50	400-1400	10-55	11"l x 1.2"w x 1.0"h
29	79676	OTi 50/347/1A4 DIM-1 L	347V	50	400-1400	10-55	11"l x 1.2"w x 1.0"h
347-480V							
30	57428	OTi 85/347-480/2A3 DIM-1 L	347V	85	700-2300	10-55	16.73"l x 1.16"w x 1.0"h
31	57429	OTi 85/347-480/2A3 DIM-1 L AUX	347V	85	700-2300	10-55	16.73"l x 1.16"w x 1.0"h
32	57430	OTi 85/347-480/2A3 DIM L AUX	347V	85	700-2300	10-55	16.73"l x 1.16"w x 1.0"h
DEXAL							
33	78033	OTi30/120-277/1A0 DX L	120-277V	30	150-1050	10-55	14.2"l x 1.12"w x 1.0"h
34	78034	OTi50/120-277/1A4 DX L	120-277V	50	600-1400	10-56	14.2"l x 1.12"w x 1.0"h
35	57432	OTi85/120-277/2A3 DX L	120-270V	85	700-2300	10-56	16.73"l x 1.16"w x 1.0"h

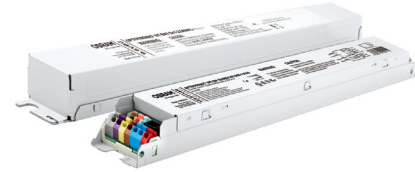
OPTOTRONIC® Constant Current Step-Dimmable Drivers



No.	NAED	Ordering Description	Input Voltage (V _{ac})	Max Output Power (W)	Output Current (mA)	Output Voltage Range (V _{dc})	Dimensions
36	79376	OT30W/CS1050C/UNV/SD/L	120-277V	30	250-1000	25-55	11"l x 1.2"w x 1.0"h
37	79377	OT50W/CS1400C/UNV/SD/L	120-277V	50	700-1400*	25-55	11"l x 1.2"w x 1.0"h

*For 1400mA output, the max output power is 47W and the output voltage is 33V.

OPTOTRONIC® Programmable Emergency LED Drivers



No.	NAED	Ordering Description	Normal Mode Output Power (W)	Maximum EM Mode Power (W)	Output Current (mA) ¹	Default Current Setting (mA)	Output Voltage Range (Vdc)	Dimming Protocol	Dimming Range**	Self Testing
120-277V										
38	57403*	OTi EM 30/UNV/1A0 DIM-1 L	30	18	150-1050	700	10-55	0-10V	1-100%	No
39	57404*	OTi EM 30/UNV/1A0 DIM-1 L AUX/ST L	30	18	150-1050	700	10-55	0-10V	1-100%	Yes
40	57405*	OTi EM 50/UNV/1A4 DIM-1 L	50	18	400-1400	1050	10-55	0-10V	1-100%	No
41	57406*	OTi EM 50/UNV/1A4 DIM-1 L AUX/ST L	50	18	400-1400	1050	10-55	0-10V	1-100%	Yes
42	57415*	OTi EM 30/UNV/1A0 DIM-1 SLIM	30	10	150-1050	700	10-55	0-10V	1-100%*	No
43	57414*	OTi EM 30/UNV/1A0 DIM-1/AUX/ST SLIM	30	10	150-1050	700	10-55	0-10V	1-100%*	Yes
44	57413*	OTi EM 50/UNV/1A4 DIM-1 SLIM	50	10	400-1400	1050	10-55	0-10V	1-100%*	No
45	57412*	OTi EM 50/UNV/1A4 DIM-1/AUX/ST SLIM	50	10	400-1400	1050	10-55	0-10V	1-100%*	Yes

Battery Packs

No.	NAED	Ordering Description	Type	Capacity	Max. Load ²	Max. Battery Voltage	Charging Time
46	57401*	OT BAT 8x2-3A0H-L	Ni-Cd	3000 mAh	18W (90 min)	25V	24 hrs
47	57402*	OT BAT 4x4-3A0H-C	Ni-Cd	3000 mAh	18W (90 min)	25V	24 hrs
48	57410	OT BAT 16x1 3A0H-L	Ni-Cd	3000 mAh	12W (90 min)	25V	24 hrs
49	57411	OT BAT 8x1-2A5H-SLIM	Ni-Cd	2500 mAh	10W (90min)	12V	24 hrs

*This is a system solution whereby each emergency LED driver must be ordered with a battery pack of choice. Dim-to-off and Soft-start are programmable (enable/disable) features. The default mode for both features is disabled for out-of-the-box products.

**The minimum dimming current is 10mA.

Notes:

1. Programmable current range for normal and emergency mode.

2. For 57401 and 57402, a 5-year warranty is provided when emergency mode power is <12W. 3-year warranty is provided when emergency mode power is <18W. For 57410, a 5-year warranty is provided when operating at <10W. For 57411, a 5-year warranty is provided at Max Tc = 55°C.

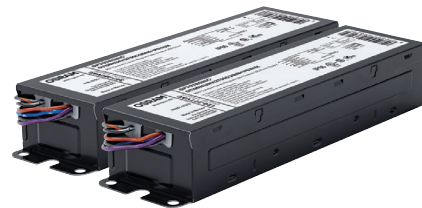
OPTOTRONIC® Constant Current Compact Drivers



No.	NAED	Ordering Description	Input Voltage (V _{AC})	Max Output Power (W)	Output Current (mA)	Output Voltage Range (V _{bc})	Dimensions
120-277V							
50	57347	OTi25W/120-277/1A2/DIM-1	120-277V	25	150-1250	8-55	4.5"l x 2.4"w x 1.1"h
51	57348	OTi25W/120-277/1A2/DIM-1/J	120-277V	25	150-1250	8-55	4.2"l x 2.4"w x 1.1"h
52	57349	OTi25W/120-277/1A2/DIM-1 AUX	120-277V	25	150-1250	8-55	4.5"l x 2.4"w x 1.1"h
53	57350	OTi25W/120-277/1A2/DIM-1 J/AUX	120-277V	25	150-1250	8-55	4.2"l x 2.4"w x 1.1"h
54	57351	OTi40W/120-277/1A4/DIM-1	120-277V	40	400-1400	8-55	4.5"l x 2.4"w x 1.1"h
55	57352	OTi40W/120-277/1A4/DIM-1/J	120-277V	40	400-1400	8-55	4.2"l x 2.4"w x 1.1"h
56	57353	OTi40W/120-277/1A4/DIM-1 AUX	120-277V	40	400-1400	8-55	4.5"l x 2.4"w x 1.1"h
57	57354	OTi40W/120-277/1A4/DIM-1 J/AUX	120-277V	40	400-1400	8-55	4.2"l x 2.4"w x 1.1"h
58	57355	OTi55W/120-277/2A0/DIM-1	120-277V	55	700-2000	10-55	4.5"l x 2.4"w x 1.1"h
59	57356	OTi55W/120-277/2A0/DIM-1/J	120-277V	55	700-2000	10-55	4.2"l x 2.4"w x 1.1"h
60	57357	OTi55W/120-277/2A0/DIM-1 AUX	120-277V	55	700-2000	10-55	4.5"l x 2.4"w x 1.1"h
61	57358	OTi55W/120-277/2A0/DIM-1/J AUX	120-277V	55	700-2000	10-55	4.2"l x 2.4"w x 1.1"h
347V							
62	57994	OTi25W/347/1A2/DIM-1	347V	25W	150-1250	8-55	4.5"l x 2.4"w x 1.1"h
63	57995	OTi25W/347/1A2/DIM-1/J	347V	25W	150-1250	8-55	4.2"l x 2.4"w x 1.1"h
64	57996	OTi25W/347/1A2/DIM-1 AUX	347V	25W	150-1250	8-55	4.5"l x 2.4"w x 1.1"h
65	57997	OTi25W/347/1A2/DIM-1 J/AUX	347V	25W	150-1250	8-55	4.2"l x 2.4"w x 1.1"h
66	57998	OTi40W/347/1A4/DIM-1	347V	40W	400-1400	8-55	4.5"l x 2.4"w x 1.1"h
67	57999	OTi40W/347/1A4/DIM-1/J	347V	40W	400-1400	8-55	4.2"l x 2.4"w x 1.1"h
68	58008	OTi40W/347/1A4/DIM-1 AUX	347V	40W	400-1400	8-55	4.5"l x 2.4"w x 1.1"h
69	58009	OTi40W/347/1A4/DIM-1 J/AUX	347V	40W	400-1400	8-55	4.2"l x 2.4"w x 1.1"h

DIM-1: 1% min dim

OPTOTRONIC® Constant Current Drivers



No.	NAED	Ordering Description	Input Voltage (V _{ac})	Max Output Power (W)	Output Current (mA)	Output Voltage Range (V _{oc})	Dimensions
120-277V							
70	79370	OT50/UNV/800C/2DIMLT2/P6	120-277V	50	350-800	30-120	6.61"l x 1.71"w x 1.18"h
71	79371	OT50/UNV/1250C/2DIMLT2/P6	120-277V	50	600-1250	15-55	6.61"l x 1.71"w x 1.18"h
72	79278	OTi50/UNV/2100C/2DIMLT2/P6	120-277V	50	1000-2100	15-55	6.61"l x 1.71"w x 1.18"h
73	79368	OT100/UNV/800C/2DIMLT2/P6	120-277V	100	350-800	50-185	6.61"l x 2.36"w x 1.5"h
74	79369	OT100/UNV/1250C/2DIMLT2/P6	120-277V	100	600-1250	30-100	6.61"l x 2.36"w x 1.5"h
75	57509	OTi95W/UNV/2750C/2DIM+/P6	120-277V	95	700-2750	15-54V	9.47"l x 2.30"w x 1.5"h
76	57510	OTi95W/UNV/2750C/2DIM+/P6/AUX	120-277V	95	700-2750	15-54V	9.47"l x 2.30"w x 1.5"h
77	57505	OTi100W/UNV/1600C/2DIM+/P6/AUX	120-277V	100	500-1600	40-185	9.47"l x 2.30"w x 1.5"h
78	79366	OT180/UNV/800C/2DIMLT2/P6	120-277V	180	350-800	82-280	9.47"l x 2.36"w x 1.5"h
79	79367	OT180/UNV/1250C/2DIMLT2/P6	120-277V	180	600-1250	70-210	9.47"l x 2.36"w x 1.5"h
80	58051	OTi200W/UNV/900C/2DIM+/P6	120-277V	200	500-900	125-285	9.47"l x 2.30"w x 1.5"h
81	58052	OTi200W/UNV/900C/2DIM+/P6/AUX	120-277V	200	500-900	125-285	9.47"l x 2.30"w x 1.5"h
82	58055	OTi200W/UNV/1400C/2DIM+/P6	120-277V	200	900-1400	75-180	9.47"l x 2.30"w x 1.5"h
83	58056	OTi200W/UNV/1400C/2DIM+/P6/AUX	120-277V	200	900-1400	75-180	9.47"l x 2.30"w x 1.5"h
347-480V							
84	79206	OT100/347-480/800C/2DIMLT2/P6	347-480V	100	350-800	50-185	6.61"l x 2.36"w x 1.5"h
85	79207	OT100/347-480/1250C/2DIMLT2/P6	347-480V	100	600-1250	30-100	6.61"l x 2.36"w x 1.5"h
86	79208	OT180/347-480/800C/2DIMLT2/P6	347-480V	180	350-800	82-280	9.47"l x 2.36"w x 1.5"h
87	79209	OT180/347-480/1250C/2DIMLT2/P6	347-480V	180	600-1250	70-210	9.47"l x 2.36"w x 1.5"h
88	57511	OTi95W/HV/2750C/2DIM+/P6/AUX	347-480V	95	700-2750	15-54	9.47"l x 2.30"w x 1.5"h
DALI							
89	57501	OTi60W/UNV/1600C/DALI/P6	120-277V	60	500-1600	15-55	5.5"l x 3.70"w x 1.5"h

OPTOTRONIC® Constant Voltage Power Supplies



No.	NAED	Ordering Description	Input Voltage (V _{AC})	Max Output Power (W)	Output Current (mA)	Output Voltage Range (V _{DC})	Maximum Dim Level	Maximum T _c (°C)
120-277V								
1	51604	OT20W/12V/UNV	120-277V	20	12V	—	75	75
2	51632	OT60W/12V/UNV	120-277V	60	12V	—	—	—
3	51804	OT20W/24V/UNV	120-277V	20	24V	—	75	75
4	51598	OT50W/24/120V/LP	120V	50	24V	—	75	75
5	51522	OT96W/24V/UNV	120-277V	96	24V	—	75	75
6	51626	OT96W/24V/UNV/JBX	120-277V	96	24V	—	75	75
7	51633	OT60W/12V/UNV/DIM*	120-277V	60	12V	—	—	—
8	51520	OT96W/24V/UNV/DIM*	120-277V	96	24V	10%	75	75

*Dimmable

OPTOTRONIC® Programmable Series

The OSRAM OPTOTRONIC LED Drivers have the capability to be programmed using the OPTOTRONIC Programming Tool that has been designed to help OEMs optimize their manufacturing process.

For step-by-step instructions on how to program an OPTOTRONIC driver or to view how to videos, visit www.osram.us/otprogramming.



OT Programmer

The OT Programmer works with the programming tools shown below.



Linear Handheld Programming Tool



Linear Auto Programming Tool



Outdoor Programming Tool



Compact Programming Tool

Accessories

No.	NAED	Ordering Description
1	51645	USB Programming Tool
2	51646	Compact Programming Tool*
3	51647	Linear Handheld Programming Tool*
4	51648	Linear Auto Programming Tool
5	79360	Outdoor Programming Tool*

*See How to Videos on programming OPTOTRONIC drivers at www.osram.us/otprogramming

OSRAM SYLVANIA Inc.
200 Ballardvale Street
Wilmington, MA 01887 USA
877-636-5267
www.osram.us/ds

OSRAM and OPTOTRONIC are registered trademarks of OSRAM GmbH.
Specifications subject to change without notice.

ECS300R5 9-19

© 2019 OSRAM SYLVANIA Inc.

OSRAM