

OPTOTRONIC® LED Drivers and Power Supplies Reference guide

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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	DEXAL	0-10V	DALI	DEXAL
120-277V				
OTi 20W*	OTi DX 30W*	OT 50W*	OTi 60W*	OTi 60W
OTi 25W*				
OTi 30W*	OTi DX 50W*	OT 100W*		
OTi 40W*				
OTi 48W*	OTi DX 85W*	OT 180W*		
OTi 50W*		OTi 50W		
OTi 55W		OTi 95W*		
OTi 85W*		OTi 100W*		
OT i75W		OTi 200W		
OT i95W				
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.

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 Programmable Linear Drivers



NAED	Ordering Description	Input Voltage (V _{AC})	Max Output Power (W)	Output Current (mA)	Output Voltage Range (V _{DC})	Dimensions
120-277V						
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
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
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
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
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
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
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
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
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
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
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
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
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
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

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

OPTOTRONIC® Constant Current Programmable Linear Drivers



NAED	Ordering Description	Input Voltage (V _{AC})	Max Output Power (W)	Output Current (mA)	Output Voltage Range (V _{DC})	Dimensions
347V						
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
79679	OTi 30/347/1A0 DIM L	347V	30	350-1050	10-55	11"l x 1.2"w x 1.0"h
79675	OTi 30/347/1A0 DIM-1 L	347V	30	350-1050	10-55	11"l x 1.2"w x 1.0"h
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
79680	OTi 48/347/2A0 DIM L	347V	48	700-2000	10-55	11"l x 1.2"w x 1.0"h
79677	OTi 48/347/2A0 DIM-1 L	347V	48	700-2000	10-55	11"l x 1.2"w x 1.0"h
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
79678	OTi 50/347/1A4 DIM L	347V	50	400-1400	10-55	11"l x 1.2"w x 1.0"h
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						
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
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
DEXAL						
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
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
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

*OTi30/OTi50/OTi85 - D4i and DALI Certified

OPTOTRONIC® Current Select Linear Drivers



NAED	Ordering Description	Input Voltage (V _{AC})	Max Output Power (W)	Output Current (mA)	Output Voltage Range (V _{DC})	Dimensions
Selectable Output Current						
57435	OT 35W/UNV/0A75 CS L	120-277V	35	350/625/750	20-46	11"l x 1.2"w x 1.0"h
57436	OT 35W/UNV/0A75 CS DIM L	120-277V	35	350/625/750	20-46	11"l x 1.2"w x 1.0"h
57459	OT 35W/UNV/0A7 CS DIM L 525	120-277V	35	525/625/675	20-46	11"l x 1.2"w x 1.0"h
57460	OT 35W/UNV/0A7 CS DIM L 625	120-277V	35	525/625/675	20-46	11"l x 1.2"w x 1.0"h
57461	OT 35W/UNV/0A7 CS DIM L 675	120-277V	35	525/625/675	20-46	11"l x 1.2"w x 1.0"h
57439	OT 50W/UNV/1A4 CS L	120-277V	50	1200/1300/1400	20-36	11"l x 1.2"w x 1.0"h
57440	OT 50W/UNV/1A4 CS DIM L	120-277V	50	1200/1300/1400	20-36	11"l x 1.2"w x 1.0"h
57437	OT 55W/UNV/1A2 CS L	120-277V	55	800/1000/1200	20-46	11"l x 1.2"w x 1.0"h
57438	OT 55W/UNV/1A2 CS DIM L	120-277V	55	800/1000/1200	20-46	11"l x 1.2"w x 1.0"h
57463	OT 55W/UNV/1A2 CS DIM L 975	120-277V	55	800/975/1200	20-46	11"l x 1.2"w x 1.0"h
Fixed Output Current						
57441	OT 35W/UNV/0A7 DIM L 500	120-277V	35	500	20-46	11"l x 1.2"w x 1.0"h
57443	OT 35W/UNV/0A7 DIM L 640	120-277V	35	640	20-46	11"l x 1.2"w x 1.0"h
57444	OT 35W/UNV/0A7 DIM L 660	120-277V	35	660	20-46	11"l x 1.2"w x 1.0"h
57445	OT 35W/UNV/0A7 DIM L 700	120-277V	35	700	20-46	11"l x 1.2"w x 1.0"h
57446	OT 35W/UNV/0A7 DIM L 720	120-277V	35	720	20-46	11"l x 1.2"w x 1.0"h
57447	OT 35W/UNV/0A7 DIM L 740	120-277V	35	740	20-46	11"l x 1.2"w x 1.0"h
57449	OT 55W/UNV/1A2 DIM L 0880	120-277V	55	880	20-46	11"l x 1.2"w x 1.0"h
57450	OT 55W/UNV/1A2 DIM L 0900	120-277V	55	900	20-46	11"l x 1.2"w x 1.0"h
57451	OT 55W/UNV/1A2 DIM L 0970	120-277V	55	970	20-46	11"l x 1.2"w x 1.0"h
57457	OT 55W/UNV/1A2 DIM L 0860	120-277V	55	860	20-46	11"l x 1.2"w x 1.0"h
57458	OT 55W/UNV/1A2 DIM L 1060	120-277V	55	1060	20-46	11"l x 1.2"w x 1.0"h

OPTOTRONIC® Constant Current Step-Dimmable Drivers



NAED	Ordering Description	Input Voltage (V _{Ac})	Max Output Power (W)	Output Current (mA)	Output Voltage Range (V _{dc})	Dimensions
79376	OT30W/CS1050C/UNV/SD/L	120-277V	30	250-1000	25-55	11"l x 1.2"w x 1.0"h
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® Constant Current Programmable Compact Drivers



NAED	Ordering Description	Input Voltage (Vac)	Max Output Power (W)	Output Current (mA)	Output Voltage Range (Vdc)	Dimensions
120-277V						
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
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
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
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
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
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
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
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
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
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
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
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						
57994	OTi25W/347/1A2/DIM-1	347V	25W	150-1250	8-55	4.5"l x 2.4"w x 1.1"h
57995	OTi25W/347/1A2/DIM-1/J	347V	25W	150-1250	8-55	4.2"l x 2.4"w x 1.1"h
57996	OTi25W/347/1A2/DIM-1 AUX	347V	25W	150-1250	8-55	4.5"l x 2.4"w x 1.1"h
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
57998	OTi40W/347/1A4/DIM-1	347V	40W	400-1400	8-55	4.5"l x 2.4"w x 1.1"h
57999	OTi40W/347/1A4/DIM-1/J	347V	40W	400-1400	8-55	4.2"l x 2.4"w x 1.1"h
58008	OTi40W/347/1A4/DIM-1 AUX	347V	40W	400-1400	8-55	4.5"l x 2.4"w x 1.1"h
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 Programmable High Wattage Compact Drivers



NAED	Ordering Description	Input Voltage (V _{ac})	Max Output Power (W)	Output Current (mA)	Output Voltage Range (V _{dc})	Dimensions
120-277V						
58014	OTi 75W/120-277/2A0 DIM-1	120-277V	75W	700-2000	20-54	6.3"l x 3.0"w x 1.1"h
58015	OTi 75W/120-277/2A0 DIM-1/J	120-277V	75W	700-2000	20-54	6.3"l x 3.4"w x 1.1"h
58016	OTi 75W/120-277/2A0 DIM-1 AUX	120-277V	75W	700-2000	20-54	6.3"l x 3.0"w x 1.1"h
58017	OTi 75W/120-277/2A0 DIM-1/J AUX	120-277V	75W	700-2000	20-54	6.3"l x 3.4"w x 1.1"h
58018	OTi 95W/120-277/2A5 DIM-1	120-277V	95W	1000-2500	20-54	6.3"l x 3.0"w x 1.1"h
58019	OTi 95W/120-277/2A5 DIM-1/J	120-277V	95W	1000-2500	20-54	6.3"l x 3.4"w x 1.1"h
58020	OTi 95W/120-277/2A5 DIM-1 AUX	120-277V	95W	1000-2500	20-54	6.3"l x 3.0"w x 1.1"h
58021	OTi 95W/120-277/2A5 DIM-1/J AUX	120-277V	95W	1000-2500	20-54	6.3"l x 3.4"w x 1.1"h

OPTOTRONIC® Constant Current Programmable Outdoor Drivers



NAED	Ordering Description	Input Voltage (V _{AC})	Max Output Power (W)	Output Current (mA)	Output Voltage Range (V _{DC})	Dimensions
120-277V						
79370	OT50/UNV/800C/2DIMLT2/P6	120-277V	50	350-800	30-120	6.61"l x 1.71"w x 1.18"h
79371	OT50/UNV/1250C/2DIMLT2/P6	120-277V	50	600-1250	15-55	6.61"l x 1.71"w x 1.18"h
79278	OTi50/UNV/2100C/2DIMLT2/P6	120-277V	50	1000-2100	15-55	6.61"l x 1.71"w x 1.18"h
79368	OT100/UNV/800C/2DIMLT2/P6	120-277V	100	350-800	50-185	6.61"l x 2.36"w x 1.5"h
79369	OT100/UNV/1250C/2DIMLT2/P6	120-277V	100	600-1250	30-100	6.61"l x 2.36"w x 1.5"h
57509	OTi95W/UNV/2750C/2DIM+/P6	120-277V	95	700-2750	15-54V	9.47"l x 2.30"w x 1.5"h
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
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
79366	OT180/UNV/800C/2DIMLT2/P6	120-277V	180	350-800	82-280	9.47"l x 2.36"w x 1.5"h
79367	OT180/UNV/1250C/2DIMLT2/P6	120-277V	180	600-1250	70-210	9.47"l x 2.36"w x 1.5"h
58051	OTi200W/UNV/900C/2DIM+/P6	120-277V	200	500-900	125-285	9.47"l x 2.30"w x 1.5"h
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
58055	OTi200W/UNV/1400C/2DIM+/P6	120-277V	200	900-1400	75-180	9.47"l x 2.30"w x 1.5"h
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						
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
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
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
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
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						
57501	OTi60W/UNV/1600C/DALI/P6	120-277V	60	500-1600	15-55	5.5"l x 3.70"w x 1.5"h
DEXAL						
57502	OTi60/UNV/1600C/DX/AUX*	120-277	60	500-1600	15-55	5.5"l x 3.15"w x 1.5"h
57557	OTi60/UNV/1600C/DX/DNN/AUX*	120-277	60	500-1600	15-55	5.5"l x 3.15"w x 1.5"h

*57502 & 57557 - D4i and DALI Certified

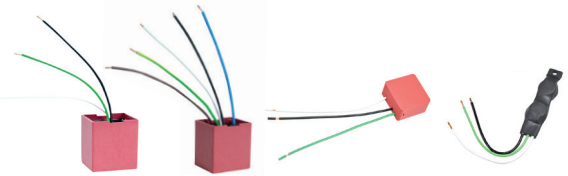
OPTOTRONIC® Constant Voltage Power Supplies



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							
51604	OT20W/12V/UNV	120-277V	20	12V	—	75	75
51632	OT60W/12V/UNV	120-277V	60	12V	—	—	—
51804	OT20W/24V/UNV	120-277V	20	24V	—	75	75
51598	OT50W/24/120V/LP	120V	50	24V	—	75	75
51522	OT96W/24V/UNV	120-277V	96	24V	—	75	75
51626	OT96W/24V/UNV/JBX	120-277V	96	24V	—	75	75
51633	OT60W/12V/UNV/DIM*	120-277V	60	12V	—	—	—
51520	OT96W/24V/UNV/DIM*	120-277V	96	24V	10%	75	75

*Dimmable

OPTOTRONIC® Surge Protection Devices



NAED	Ordering Description	Mains Voltage (Vac)	Surge Rating	Max. Voltage	MLV (Measured Limiting Voltage) (Vac)			Nominal Current	LED Indicator	IP Rating	Connection Type	Dimensions L x W x H (in)
					L-N	L-G	N-G					
57572	OT/SPD/277/20KV/P6/P/S2	277	20kV	320	3020	1900	1900	10kA	No	IP66	Parallel	1.93 x 0.98 x 1.81
57573	OT/SPD/277/20KV/P6/S/L/S3	277	20kV	320	3020	1900	1900	10kA	Yes	IP66	Series	2.17 x 2.09 x 1.77
57576	OT/SPD/480/20KV/P6/P/S3	480	20kV	550	2200	2700	2700	10kA	No	IP66	Parallel	2.17 x 2.09 x 1.77
57577	OT/SPD/480/20KV/P6/S/L/S3	480	20kV	550	2000	2700	2700	10kA	Yes	IP66	Series	2.17 x 2.09 x 1.77
57571	OT/SPD/277/10KV/P6/P/S2	277	10kV	320	1940	1440	1440	5kA	No	IP66	Parallel	1.93 x 0.98 x 1.81
57569	OT/SPD/120/10KV/P6/P/S2	120	10kV	150	900	900	900	5kA	No	IP66	Parallel	1.93 x 0.98 x 1.81
57574	OT/SPD/347/10KV/P6/P/S2	347	10kV	420	1100	1900	1900	5kA	No	IP66	Parallel	1.93 x 0.98 x 1.81
57570	OT/SPD/277/10KV/P6/P/S1	277	10kV	320	1120	1250	1250	5kA	No	IP66	Parallel	4.13 x 1.02 x 0.59
57575	OT/SPD/480/10KV/P6/P/S2	480	10kV	550	1500	2500	2500	5kA	No	IP66	Parallel	2.17 x 2.09 x 1.77

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.

The OT Programmer works with the programming tools shown below.



OT Programmer



Linear Handheld Programming Tool



Linear Auto Programming Tool



Outdoor Programming Tool



Compact Programming Tool



Accessories

NAED	Ordering Description
51645	USB Programming Tool
51646	Compact Programming Tool*
51647	Linear Handheld Programming Tool*
51648	Linear Auto Programming Tool
79360	Outdoor Programming Tool*
57493	Compact Handheld High Power Programming Tool

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

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