



Light is outstanding
OPTOTRONIC® LED Drivers
and Power Supplies

Light is OSRAM

OSRAM

OSRAM has been a leader in the lighting industry for over 110 years providing lighting solutions to meet all of our customers' needs. As the industry transitions to solid state lighting, we continue to expand our product portfolio with innovative LED drivers and power supplies for a wide variety of applications. Our experienced engineers develop products at the forefront of the industry for new luminaire designs. Over the years we've changed to reflect the markets we serve and the customers we reach.



10+ Years of Experience

Year 2020 marked the 18-year anniversary of OPTOTRONIC® Power Supplies powering LED systems across the globe. Over the years, OPTOTRONIC LED Power Supplies have become the industry standard for robust performance, reliability and peace of mind.



A History of OPTOTRONIC Power Supplies

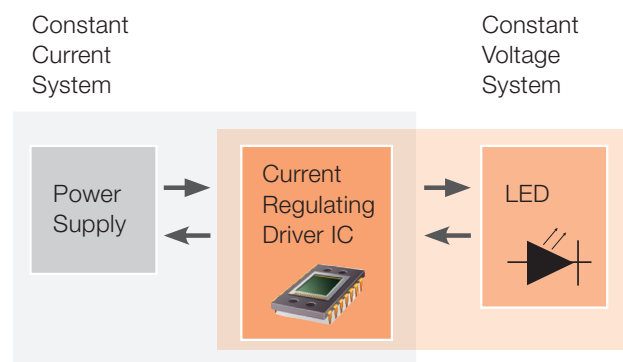
2002	2003	2004	2005	2006	2007
OPTOTRONIC is born First OPTOTRONIC 24V constant voltage power supply – OT75W	First OPTOTRONIC Control Interfaces make dimming of LED lighting possible	First OPTOTRONIC 10V constant voltage power supply – OT50W	First OPTOTRONIC constant current power supply – OT9W/350C	OSRAM's first outdoor rated power supplies – OT96W & OT240W	Thinnest LED power supply worldwide – OT50W/LP

Powerful, customized solutions you can depend on

The OPTOTRONIC® family of LED power supplies by OSRAM features a complete portfolio of constant voltage and constant current drivers in a variety of electrical configurations and form factors to suit your application space and system requirements.

All OPTOTRONIC power supplies meet the highest industry standards for robust performance, reliability and peace of mind. Our drivers have powered LED systems across the globe for over 10 years and have the industry's finest 5 year warranty.

Constant Voltage LED Power Supplies are designed to be used with constant voltage type LED modules that employ an integrated current regulation on the LED board. Constant voltage based LED systems are ideal for linear and scalable applications, where flexibility is an important feature.



Constant Current LED Power Supplies for indoor and outdoor applications are designed to provide regulated current directly to the LED array. Doing so, these power supplies reduce the complexity in designing LED modules while maximizing system performance and efficacy. OSRAM constant current LED power supplies are configurable to precisely match the specific LED load and operating requirements.

Indoor LED Power Supplies

Optimized for:

- Accent lighting and downlight applications in a compact form factor
- Ambient lighting applications in a linear form factor
- Available with various industry popular dimming options to enable the applications control requirements.
 - 0-10V
 - StepDIM

Outdoor LED Power Supplies

Family of outdoor drivers available in 50W, 100W, and 180W versions with dimming down to 10%. Loaded with features designed to meet the needs of a multitude of outdoor applications.

2008/2009

Most efficient constant current power supply in NAFTA Market – OTHE40W

First integrated dimmable power supply – OTHE40DIM

First OPTOTRONIC 12V constant voltage power supplies

2010

First UL Listed OPTOTRONIC power supply

2011

Smallest integrated dimmable power supply – OT96W/DIM

2012

First 60W 12V power supply

2013

First production friendly programmable drivers – OT40W & OT25W

OPTOTRONIC® Programming

The family of OPTOTRONIC programmable drivers offers OEMs a wide operating range ensuring a high degree of flexibility.

Features Include:



AstroDIM

Autonomous dimming without the need for an external control unit. The dimming is regulated by an integrated timer which adjusts the dimming profile over the entire year based on an internal adaptive algorithm.



Auxiliary Output

Available integrated programmable auxiliary output (12V, 20V, and 24V).



Constant Lumen Output (CLO)

Power supplies can be programmed to drive LED modules at a lower initial drive current and gradually increase over time to ensure constant lumen output of the modules.



DALI

Provides a standardized control protocol that allows lighting components to be seamlessly monitored and controlled.



Dimming

0-10V programmable dimming down to 1% or 10%.



Turns off lights below minimum dimming level without using an external relay.



Provides industry standard analog dimming.



Available across the entire driver programmable output current range, not just at a specific point or section of the range.



End-of-Life Indicator

Power supplies can be programmed to indicate when the luminaire has reached end-of-life and needs to be upgraded/replaced.



LED Thermal Protection

Power supplies can be programmed to decrease current to the modules once they reach a certain temperature to ensure modules will not over heat.



LEDset

Analog interface that enables automatic output current setting for a LEDset compatible module.



Line Voltage Protection

Protects the secondary circuitry from failure when improper voltage is on the 0-10V dimming output.



Programmability

Easily identify OSRAM programmable drivers and power supplies with this icon.



Soft Start

Provides a 2.5 second, 0-100% output smooth turn on effect to the light engine.



Sync On/Off + DIM

Meet efficiency requirements and consistent dimming levels across multiple luminaires or within a single linear luminaire where multiple drivers are used.



Tunable White

Color temperature and brightness controlled on a single channel to enable human centric lighting.

A History of OPTOTRONIC Power Supplies

2014

First programmable outdoor power supplies

2016

Introduced OPTOTRONIC 347V driver to the Canadian market

2017

Introduced OPTOTRONIC programmable driver to enable bi-directional communications (DEXAL Technology)

Industry's first dual mode programmable emergency driver

2018

Introduced family of compact, linear and outdoor drivers all with auxiliary DC output allowing drivers to power fixture integrated sensors

2019

Introduced Tunable White System solution

First outdoor Class 2 driver released – OTi95W UNV & HV

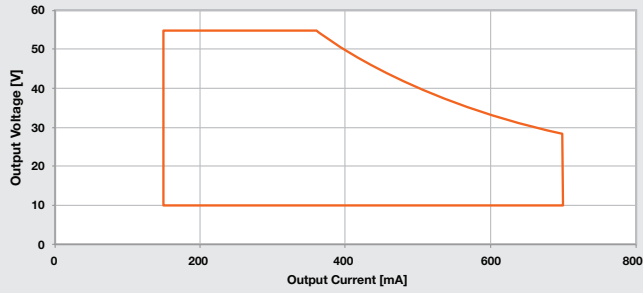
Launched highest wattage outdoor driver – OTi200W

Programmable Output Ranges

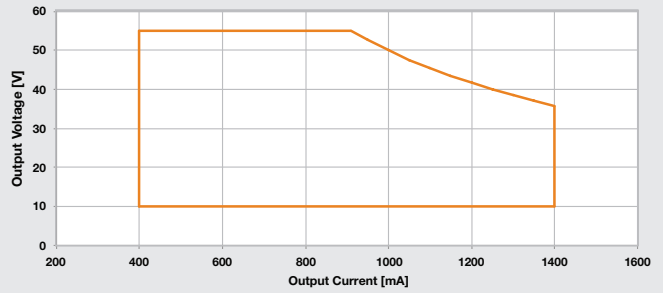
Each model offers a wide output current range to meet all applications.

Linear

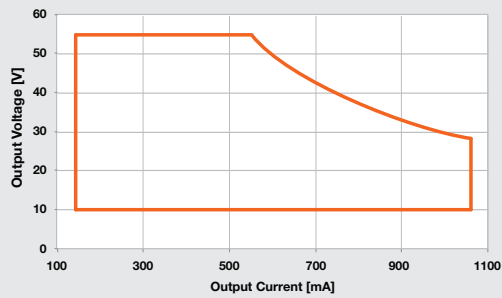
OTi20W



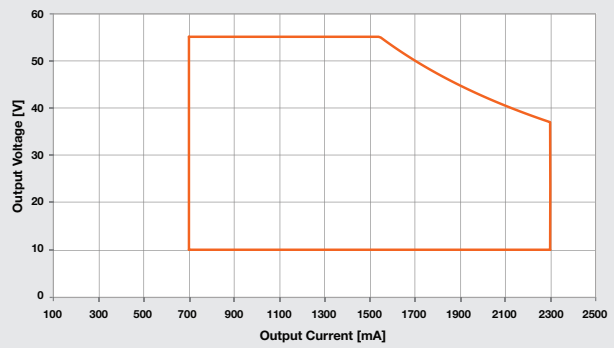
OTi50W



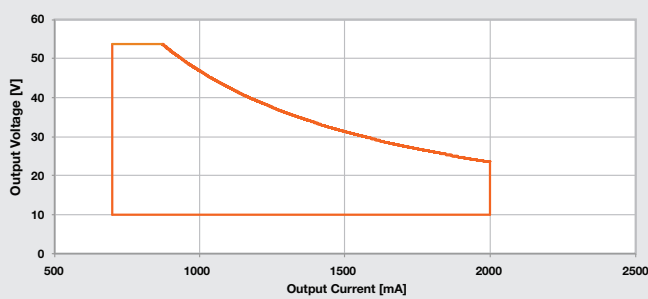
OTi30W



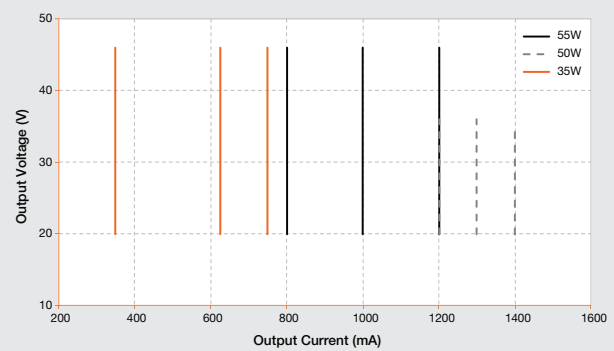
OTi85W



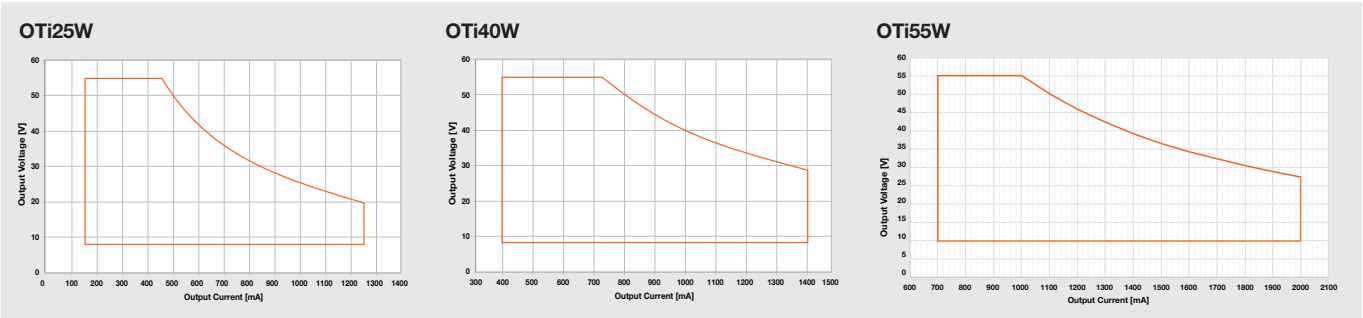
OTi48W



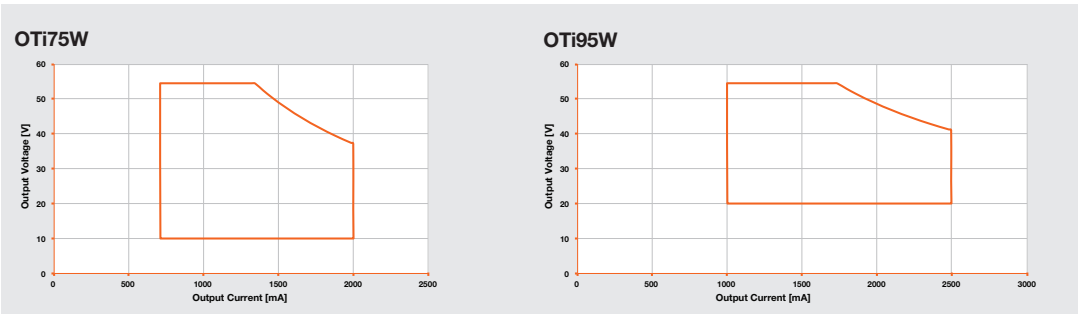
Current Select Drivers



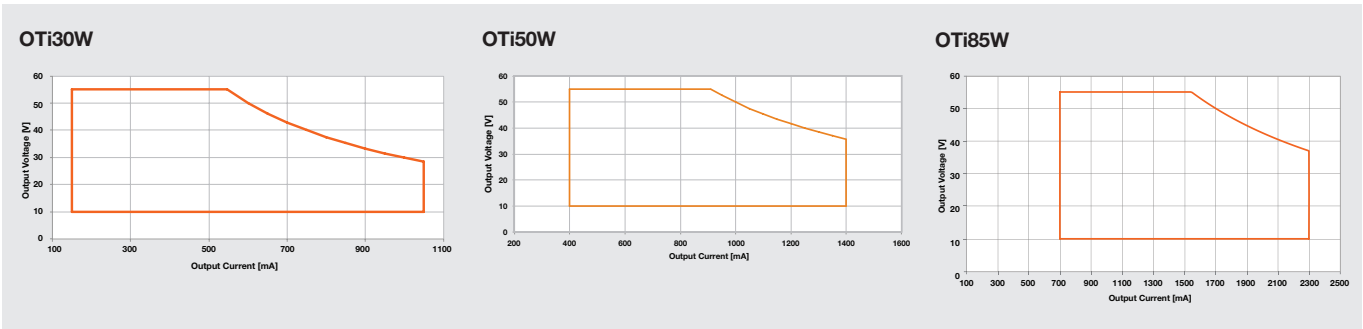
Compact



Compact - High Wattage

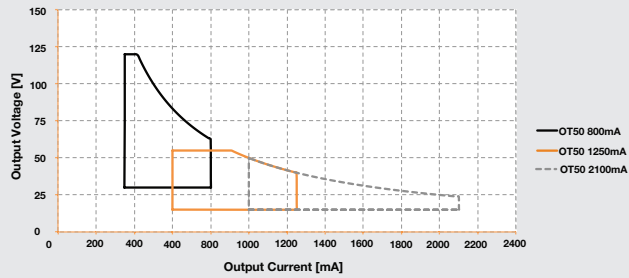


DEXAL® - Indoor

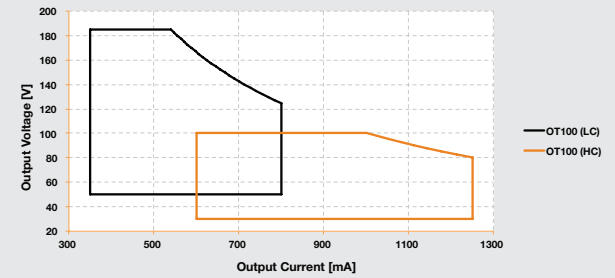


Outdoor

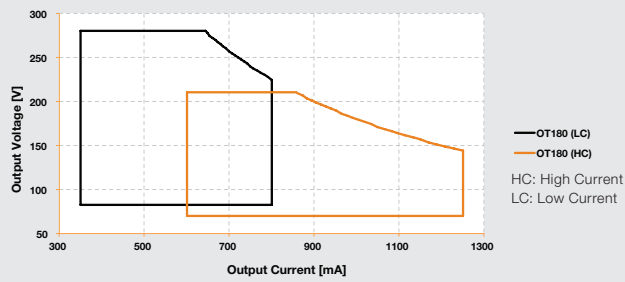
OT50



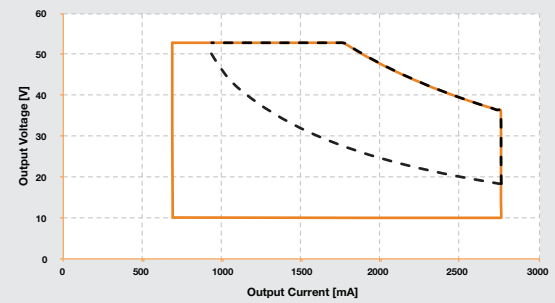
OT100



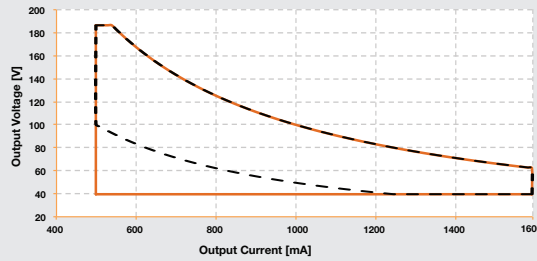
OT180



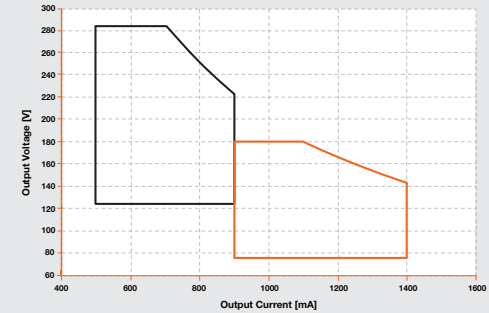
OTi95W



OTi100

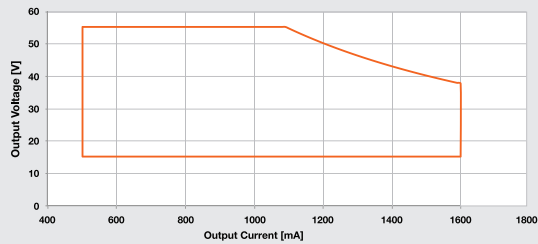


OTi200W



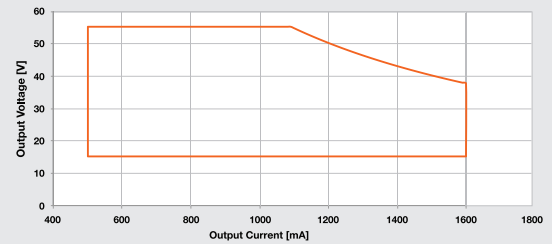
DALI - Outdoor

OTi60W



DEXAL - Outdoor

OTi60W



Software

Easily customize system performance

The OPTOTRONIC® programming software is available in the [Tools and Resources](http://www.osram.us/ds) section of www.osram.us/ds.

Programmable Software Features

The screenshot shows the 'OPTOTRONIC LED Power Supply Configuration Tool' window. It includes a menu bar (File, Tools, Diagnostics, Help), a status bar at the bottom, and several configuration sections. Callouts point to the following features:

- Output Current:** Programmable within a 1mA resolution. The interface shows 'Minimum Current: 400 mA', 'Maximum Current: 1400 mA', and a 'Custom Set Current' of 1050 mA.
- LED Thermal Protection:** Output current foldback based on negative thermal coefficient (NTC) feedback. Options include 'Use default values' and 'Use custom values' with fields for 'Temperature Derating Start' (6.3 kΩ), 'Temperature Derating End' (5 kΩ), and 'Minimum Output Level' (50 %).
- Dimming:** Dimming protocol and dimming level. Options include '0-10V Dimming', 'TRUE 1%', and 'Standard'. A 'Minimum Dimming Level' of 1 % is shown.
- Auxiliary Output:** Auxiliary Output selection. Options include '12V', '20V', and '24V'.
- Constant Lumen Module:** Eight programmable data points to compensate for module lumen depreciation. The interface shows '100% = 1050mA' and 'Operating time: -- hours'.
- End-Of-Life Indicator:** Customizable kHours to indicate luminaire upgrade/replacement.
- Load Profile:** Programming based on the barcode reader. A barcode is visible in the 'Load Profile' section.
- Program:** Single click programming for multiple drivers.
- Read:** Read programmed parameters and operating life of driver.

Additional Software Features

Data Logging

Creates a database of all programming activities, features and parameters; automatically linked to the individual LED power supply serial number. Useful for quality assurance, history or tracking purposes.

Production Mode

Restricted software environment. User can program drivers with pre-set profiles, but cannot modify any parameters or features. Profiles can be sourced from local, shared, or network locations.



Tools

Item Number	Ordering Abbreviation	Description	Required Accessory
51645	OT Programmer	USB Programming Tool	Yes
51646	OT Programming Nest	Compact Programming Tool	No
51647	OTLinearHandheldPRGtool	Linear Programming Tool	No
51648	OTLinearAutoPRGTool	Linear Auto Programming Tool	No
79360	OTOutdoorPRGTool	Outdoor Programming Tool	No
57493	OT Compact Handheld Hi Power Tool	Compact Handheld High Power Programming Tool	Optional



OT Programmer



Linear Handheld Programming Tool



Linear Auto Programming Tool



Outdoor Programming Tool



Compact Programming Tool



Compact Handheld High Power Programming Tool

Warranty

OSRAM is committed to producing the highest quality of products. Therefore, OSRAM offers to replace any OPTOTRONIC® driver that may fail within 5 years from the date of installation. Please reference the terms and conditions section of the warranty for complete details. Programming accessories for the OPTOTRONIC family of products have an OSRAM 90 day warranty.

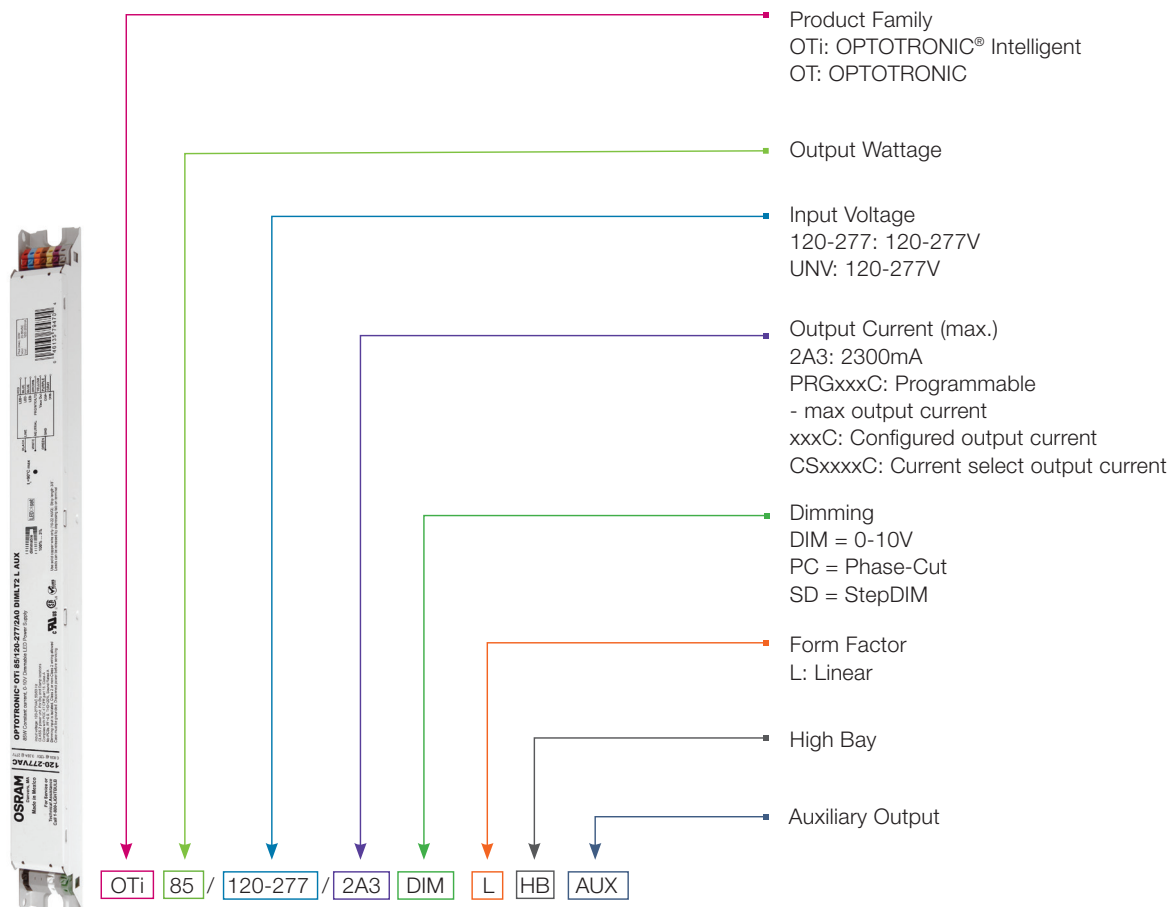


For more detailed information please visit www.osram.us/warranty

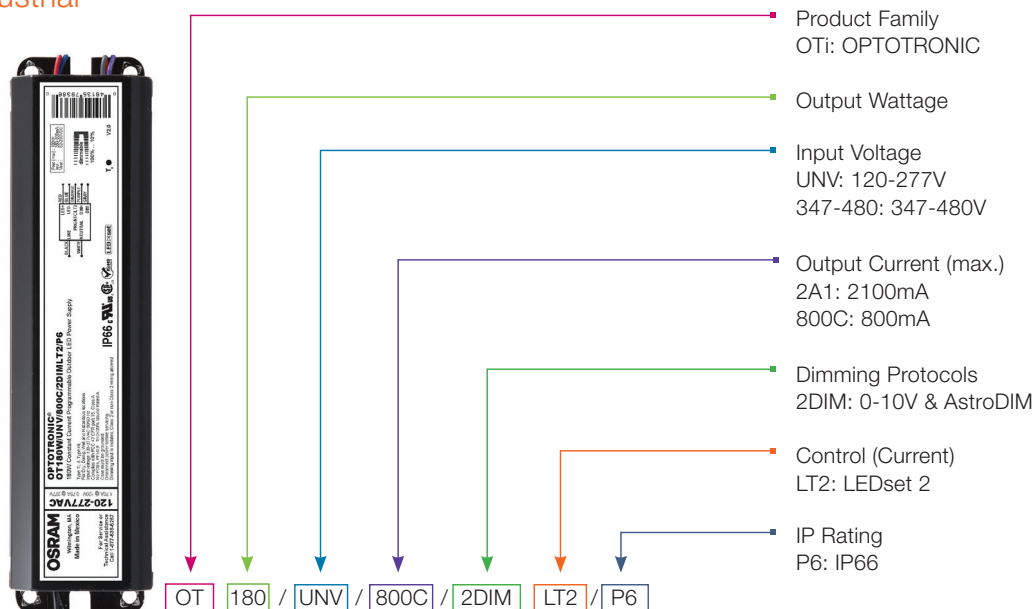


Ordering Guide

Indoor



Outdoor/Industrial



OPTOTRONIC®

Linear Programmable Dimmable LED Drivers



Specifications and Certifications



Features and Benefits

- Architectural-grade features include:
 - True 1% dimming
 - Synchronized ON/OFF and dimming control
 - DIM to OFF
 - Dimming interface protection
- Custom programmable with 1mA resolution to perfectly match LED load and maximize performance
- Integrated OEM programmable features include:
 - Constant lumen maintenance
 - End of life indication
 - LED thermal protection
 - Soft start
- Programming does not require powering up or connecting the power supply to AC line voltage
- Available optional auxiliary output to power 12V, 20V, and 24V low power applications
- Slim form factors
- Input voltage:
 - Universal 120-277V_{AC} 50/60Hz
 - 347V_{AC} 50/60Hz
- UL Class 2 output for safe operation



Ordering Information

Item Number	Ordering Abbreviation	Total Output Power	Output Current Range ¹	Default Current	Output Voltage Range (V _{OC})	Dimming Control	Dimming Range	LED Thermal Protection
Linear 120-277V Drivers								
OTi85								
57420	OTi 85/120-277/2A3 DIM-1 L	85W	700-2300mA (programmable)	1400mA	10-55V	0-10V	1%	Yes
57421	OTi 85/120-277/2A3 DIM-1 L AUX	85W	700-2300mA (programmable)	1400mA	10-55V	0-10V	1%	Yes
57422	OTi 85/120-277/2A3 DIM L	85W	700-2300mA (programmable)	1400mA	10-55V	0-10V	10%	Yes
57424	OTi 85/120-277/2A3 DIM-1 L HB	85W	700-2300mA (programmable)	1400mA	10-55V	0-10V	1%	Yes
57425	OTi 85/120-277/2A3 DIM-1 L HB AUX	85W	700-2300mA (programmable)	1400mA	10-55V	0-10V	1%	Yes
57426	OTi 85/120-277/2A3 DIM L HB	85W	700-2300mA (programmable)	1400mA	10-55V	0-10V	10%	Yes
HB refers to highbay versions that have 6kV surge protection								
OTi50								
57456	OTi50/120-277/1A4 DIM-1 L AUX G2	50W	400-1400mA (programmable)	1050mA	10-55V	0-10V	1-100%	Yes
57452	OTi50/120-277/1A4 DIM-1 L G2	50W	400-1400mA (programmable)	1050mA	10-55V	0-10V	1-100%	Yes
OTi48								
57455	OTi48/120-277/2A0 DIM-1 L AUX G2	48W	700-2000mA (programmable)	1400mA	10-55V	0-10V	1-100%	Yes
57434	OTi48/120-277/2A0 DIM-1 L G2	48W	700-2000mA (programmable)	1400mA	10-55V	0-10V	1-100%	Yes
OTi30								
57454	OTi30/120-277/1A0 DIM-1 L AUX G2	30W	150-1050mA (programmable)	700mA	10-55V	0-10V	1-100%	Yes
57433	OTi30/120-277/1A0 DIM-1 L G2	30W	150-1050mA (programmable)	700mA	10-55V	0-10V	1-100%	Yes
OTi20								
57453	OTi20/120-277/0A7 DIM-1 L AUX G2	20W	150-700mA (programmable)	500mA	10-55V	0-10V	1-100%	Yes
57431	OTi20/120-277/0A7 DIM-1 L G2	20W	150-700mA (programmable)	500mA	10-55V	0-10V	1-100%	Yes

Linear 347V Drivers

OTi85								
57428	OTi 85/347-480/2A3 DIM-1 L	85W	700-2300mA (programmable)	1400mA	10-55V	0-10V	1-100%	Yes
57429	OTi 85/347-480/2A3 DIM-1 L AUX	85W	700-2300mA (programmable)	1400mA	10-55V	0-10V	1-100%	Yes
57430	OTi 85/347-480/2A3 DIM L AUX	85W	700-2300mA (programmable)	1400mA	10-55V	0-10V	10-100%	Yes
OTi50								
79670	OTi 50/347/1A4 DIM-1 L AUX	50W	400-1400mA (programmable)	1050mA	10-55V	0-10V	1-100%	Yes
79676	OTi 50/347/1A4 DIM-1 L	50W	400-1400mA (programmable)	1050mA	10-55V	0-10V	1-100%	Yes
79678	OTi 50/347/1A4 DIM L	50W	400-1400mA (programmable)	1050mA	10-55V	0-10V	10-100%	Yes
OTi48								
79671	OTi 48/347/2A0 DIM-1 L AUX	48W	700-2000mA (programmable)	1400mA	10-55V	0-10V	1-100%	Yes
79677	OTi 48/347/2A0 DIM-1 L	48W	700-2000mA (programmable)	1400mA	10-55V	0-10V	1-100%	Yes
79680	OTi 48/347/2A0 DIM L	48W	700-2000mA (programmable)	1400mA	10-55V	0-10V	10-100%	Yes
OTi30								
79669	OTi 30/347/1A0 DIM-1 L AUX	30W	150-1050mA (programmable)	700mA	10-55V	0-10V	1-100%	Yes
79675	OTi 30/347/1A0 DIM-1 L	30W	150-1050mA (programmable)	700mA	10-55V	0-10V	1-100%	Yes
79679	OTi 30/347/1A0 DIM L	30W	350-1050mA (programmable)	700mA	10-55V	0-10V	10-100%	Yes

1. Output current below 350mA is in PWM mode (not applicable for OTi85W).

OPTOTRONIC®

Indoor Linear LED Driver with DEXAL® Technology



Features and Benefits

- Two-way communication and power between driver and fixture-integrated components
- Helps streamline luminaire configuration and manufacturing process (one driver can support multiple LMS)
- Enables exact luminaire-specific data including:
 - Power consumption
 - Temperature profile
 - Operating hours
 - Diagnostics
- OEM programmable with 1mA resolution to perfectly match LED load and maximize performance
- Integrated OEM programmable features include:
 - Constant lumen maintenance
 - Dim-to-off
 - End-of-life indication
 - Soft start
 - LED thermal protection
- Programming doesn't require powering up or connecting the power supply to AC line voltage
- Specification grade dimming down to 1%
- Universal input voltage 120-277V_{AC} 50/60Hz
- UL Class 2 output for safe operation

Product Recognition



Specifications and Certifications



Ordering Information

Item Number	Ordering Abbreviation	Total Output Power	Output Current Range ¹	Default Current	Output Voltage Range (V _{oc})	Dimming Interface ²	Dimming Range ³	LED Thermal Protection
OTi85								
57432	OTi85/120-277/2A3 DX L	85W	700-2300mA (programmable)	1400mA	10-56V	DEXAL®	1-100%	Yes
OTi50								
78034	OTi50/120-277/1A4 DX L	50W	600-1400mA (programmable)	1050mA	10-56V	DEXAL	1-100%	Yes
OTi30								
78033	OTi30/120-277/1A0 DX L	30W	150-1050mA ¹ (programmable)	700mA	10-55V	DEXAL	1-100%	Yes

1. Output current below 450mA is in PWM (not applicable for 85W)

2. The default mode for the interface is DEXAL. This combines the power and communication on the single bus. In this mode, the polarity of the interface is sensitive. For applications employing DALI systems (wired or wireless), the power supply on the interface can be turned off via the programming software. This makes the interface non-polarized. For specific compatibility questions, please contact your OSRAM Digital Lighting Systems representative.

3. The minimum output current for both LED drivers is 6mA.

OPTOTRONIC®

Step-Dimmable LED Drivers



Features and Benefits

- Five fixed output current options per model for simple output flexibility
- Step-DIM – 100-50%
- Two hot wires – neutral and ground
- Traditional form factor – 11" x 1.2" x 1.0" (L x W x H)
- Universal input voltage – 120-277V_{AC} 50/60Hz
- UL Class 2 output for safe operation



Specifications and Certifications



Ordering Information

Item Number	Ordering Abbreviation	Max. Output Power	Output Current Range (mA)	Output Voltage Range (V _{OC})	Dimming Control	Dimming Range
79376	OT30W/CS1050C/UNV/SD/L	30W	250, 350, 500, 700, 1050	25-55	Step-DIM	50/100%
79377	OT50W/CS1400C/UNV/SD/L	50W	700, 800, 1050, 1250, 1400*	25-55	Step-DIM	50/100%

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



OPTOTRONIC®

Current Select Drivers



Features and Benefits

- Wide coverage of operating currents and power levels
- Multiple output currents selectable by shorting designated output pins
- Available with dimming or non-dimming versions
- Specification grade dimming down to 10% on 0-10V dimmers
- Input voltage:
 - Universal 120-277V_{AC} 50/60Hz
- UL Class 2 output
- UL Class P Listed

Specifications and Certifications

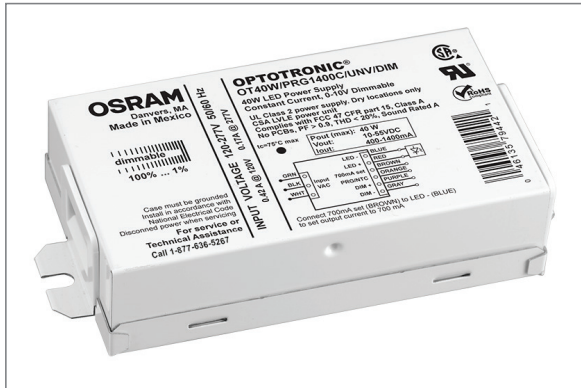


Ordering Information

Item Number	Ordering Abbreviation	Total Output Power	Output Selectable Current (mA)	Default Current Setting	Output Voltage Range (V _{oc})	Dimming Control	Dimming Range	LED Thermal Protection	Class P
Selectable Output Current									
57435	OT 35W/UNV/0A75 CS L	35W	350/625/750	350mA	20-46V	-	-	No	Yes
57436	OT 35W/UNV/0A75 CS DIM L	35W	350/625/750	350mA	20-46V	0-10V	10-100%	No	Yes
57459	OT 35W/UNV/0A7 CS DIM L 525	35W	525/625/675	525mA	20-46V	0-10V	10-100%	No	Yes
57460	OT 35W/UNV/0A7 CS DIM L 625	35W	525/625/675	625mA	20-46V	0-10V	10-100%	No	Yes
57461	OT 35W/UNV/0A7 CS DIM L 675	35W	525/625/675	675mA	20-46V	0-10V	10-100%	No	Yes
57439	OT 50W/UNV/1A4 CS L	50W	1200/1300/1400	1200mA	20-36V	-	-	No	Yes
57440	OT 50W/UNV/1A4 CS DIM L	50W	1200/1300/1400	1200mA	20-36V	0-10V	10-100%	No	Yes
57437	OT 55W/UNV/1A2 CS L	55W	800/1000/1200	800mA	20-46V	-	-	No	Yes
57438	OT 55W/UNV/1A2 CS DIM L	55W	800/1000/1200	800mA	20-46V	0-10V	10-100%	No	Yes
57463	OT 55W/UNV/1A2 CS DIM L 975	55W	800/975/1200	975mA	20-46V	0-10V	10-100%	No	Yes
Fixed Output Current									
57441	OT 35W/UNV/0A7 DIM L 500	35W	500	500mA	20-46V	0-10V	10-100%	No	Yes
57443	OT 35W/UNV/0A7 DIM L 640	35W	640	640mA	20-46V	0-10V	10-100%	No	Yes
57444	OT 35W/UNV/0A7 DIM L 660	35W	660	660mA	20-46V	0-10V	10-100%	No	Yes
57445	OT 35W/UNV/0A7 DIM L 700	35W	700	700mA	20-46V	0-10V	10-100%	No	Yes
57446	OT 35W/UNV/0A7 DIM L 720	35W	720	720mA	20-46V	0-10V	10-100%	No	Yes
57447	OT 35W/UNV/0A7 DIM L 740	35W	740	740mA	20-46V	0-10V	10-100%	No	Yes
57449	OT 55W/UNV/1A2 DIM L 0880	55W	880	880mA	20-46V	0-10V	10-100%	No	Yes
57450	OT 55W/UNV/1A2 DIM L 0900	55W	900	900mA	20-46V	0-10V	10-100%	No	Yes
57451	OT 55W/UNV/1A2 DIM L 0970	55W	970	970mA	20-46V	0-10V	10-100%	No	Yes
57457	OT 55W/UNV/1A2 DIM L 0860	55W	860	860mA	20-46V	0-10V	10-100%	No	Yes
57458	OT 55W/UNV/1A2 DIM L 1060	55W	1060	1060mA	20-46V	0-10V	10-100%	No	Yes

OPTOTRONIC®

Compact Programmable Dimmable LED Drivers



Product Recognition



Specifications and Certifications



Compliant to 47 CFR, Part 15 Class A
Compliant to UL STD 60730-1 for SREC
Compatible with CA T-24 requirement for flicker and startup time

Features and Benefits

- Architectural-grade features include:
 - True 1% dimming
 - Synchronized ON/OFF and dimming control
 - DIM to OFF
 - Dimming interface protection
- Custom programmable with 1mA resolution to perfectly match LED load and maximize performance
- Integrated OEM programmable features include:
 - Constant lumen maintenance
 - End of life indication
 - LED thermal protection
 - Soft start
- Programming does not require powering up or connecting the power supply to AC line voltage
- Available optional auxiliary output to power 12V, 20V, and 24V low power applications
- Familiar standard industry housing – 5.0" x 2.4" x 1.1" (L x W x H)
- Wide output current and voltage range
- Available with mounting feet (F-style) or PEM studs (J-style) to simplify installation
- Input voltage:
 - Universal 120-277V_{AC} 50/60Hz
 - 347V_{AC} 50/60Hz
- UL Class 2 output for safe operation



Ordering Information

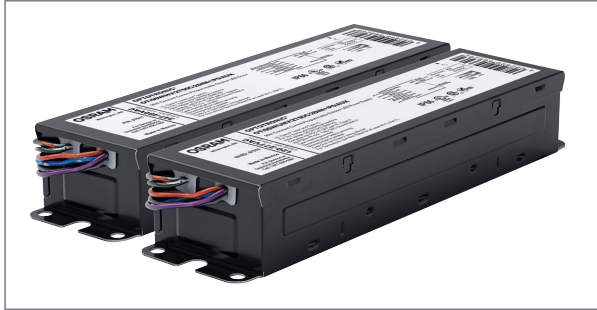
Item Number	Ordering Abbreviation	Total Output Power	Output Current Range	Default Current	Output Voltage Range (V _{OC})	Dimming Control	Dimming Range	LED Thermal Protection	Housing Type
57355	OTI55W/120-277/2A0/DIM-1	55W	700-2000mA (programmable)	1000mA	10-55V	0-10V	1-100%	Yes	F-Style
57356	OTI55W/120-277/2A0/DIM-1/J	55W	700-2000mA (programmable)	1000mA	10-55V	0-10V	1-100%	Yes	J-Style
57357	OTI55W/120-277/2A0/DIM-1 AUX	55W	700-2000mA (programmable)	1000mA	10-55V	0-10V	1-100%	Yes	F-Style
57358	OTI55W/120-277/2A0/DIM-1/J AUX	55W	700-2000mA (programmable)	1000mA	10-55V	0-10V	1-100%	Yes	J-Style
57994	OTI25W/347/1A2/DIM-1	25W	150-1250mA (programmable)	500mA	8-55V	0-10V	1-100%	Yes	F-Style
57995	OTI25W/347/1A2/DIM-1/J	25W	150-1250mA (programmable)	500mA	8-55V	0-10V	1-100%	Yes	J-Style
57996	OTI25W/347/1A2/DIM-1 AUX	25W	150-1250mA (programmable)	500mA	8-55V	0-10V	1-100%	Yes	F-Style
57997	OTI25W/347/1A2/DIM-1 J/AUX	25W	150-1250mA (programmable)	500mA	8-55V	0-10V	1-100%	Yes	J-Style
57998	OTI40W/347/1A4/DIM-1	40W	400-1400mA (programmable)	700mA	8-55V	0-10V	1-100%	Yes	F-Style
57999	OTI40W/347/1A4/DIM-1/J	40W	400-1400mA (programmable)	700mA	8-55V	0-10V	1-100%	Yes	J-Style
58008	OTI40W/347/1A4/DIM-1 AUX	40W	400-1400mA (programmable)	700mA	8-55V	0-10V	1-100%	Yes	F-Style
58009	OTI40W/347/1A4/DIM-1 J/AUX	40W	400-1400mA (programmable)	700mA	8-55V	0-10V	1-100%	Yes	J-Style

High Wattage Compact LED Drivers

58014	OTI 75W/120-277/2A0 DIM-1	75W	700-2000mA (programmable)	2000mA	20-54V	0-10V	1-100%	Yes	F-Style
58015	OTI 75W/120-277/2A0 DIM-1/J	75W	700-2000mA (programmable)	2000mA	20-54V	0-10V	1-100%	Yes	J-Style
58016	OTI 75W/120-277/2A0 DIM-1 AUX	75W	700-2000mA (programmable)	2000mA	20-54V	0-10V	1-100%	Yes	F-Style
58017	OTI 75W/120-277/2A0 DIM-1/J AUX	75W	700-2000mA (programmable)	2000mA	20-54V	0-10V	1-100%	Yes	J-Style
58018	OTI 95W/120-277/2A5 DIM-1	95W	1000-2500mA (programmable)	2300mA	20-54V	0-10V	1-100%	Yes	F-Style
58019	OTI 95W/120-277/2A5 DIM-1/J	95W	1000-2500mA (programmable)	2300mA	20-54V	0-10V	1-100%	Yes	J-Style
58020	OTI 95W/120-277/2A5 DIM-1 AUX	95W	1000-2500mA (programmable)	2300mA	20-54V	0-10V	1-100%	Yes	F-Style
58021	OTI 95W/120-277/2A5 DIM-1/J AUX	95W	1000-2500mA (programmable)	2300mA	20-54V	0-10V	1-100%	Yes	J-Style

OPTOTRONIC®

Outdoor/Industrial Programmable Dimmable LED Drivers



Features and Benefits

- OEM programmable with 1mA resolution to perfectly match LED load and maximize performance
- Dimming down to 1% on 0-10V dimmers and DALI*
- Integrated OEM programmable features include:
 - Constant lumen maintenance — AstroDIM
 - LED thermal protection — LEDset
 - AUX output
- Programming doesn't require powering up or connecting the power supply to AC line voltage
- High levels of line transient protection for outdoor applications (6kV)
- UL Damp Rated
- IP66 Rated
- Available in both
 - Universal input voltage 120-277V_{AC} 50/60Hz
 - 347-480V_{AC} 50/60Hz
- UL Class P Listed

*60W only

Specifications and Certifications



Ordering Information

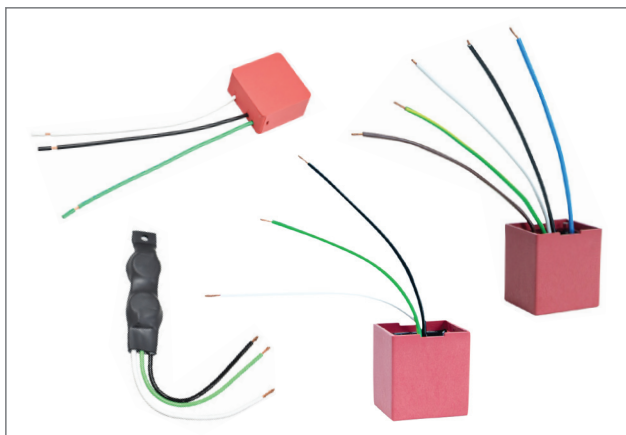
Item Number	Ordering Abbreviation	Total Output Power	Output Current Range	Default Current Setting	Output Voltage Range (V _{oc})	Dimming Control	Dimming Range	LED Thermal Protection ¹	Class P
Input Voltage 120-277V									
79370	OT50W/UNV/800C/2DIMLT2/P6	50W	350-800mA (programmable)	530mA	30-120V	0-10V	10-100%	Yes	Yes
79371	OT50W/UNV/1250C/2DIMLT2/P6	50W	600-1250mA (programmable)	700mA	15-55V	0-10V	10-100%	Yes	Yes
79278	OTI50W/UNV/2100C/2DIMLT2/P6	50W	1000-2100mA (programmable)	2000mA	15-55V	0-10V	10-100%	Yes	—
57509	OTI95W/UNV/2750C/2DIM+/P6	95W	700-2750mA (programmable)	2700mA	15-54V	0-10V	1-100%	Yes	Yes
57510	OTI95W/UNV/2750C/2DIM+/P6/AUX	95W	700-2750mA (programmable)	2700mA	15-54V	0-10V	1-100%	Yes	Yes
79368	OT100W/UNV/800C/2DIMLT2/P6	100W	350-800mA (programmable)	530mA	50-185V	0-10V	10-100%	Yes	Yes
79369	OT100W/UNV/1250C/2DIMLT2/P6	100W	600-1250mA (programmable)	700mA	30-100V	0-10V	10-100%	Yes	Yes
57505	OTI100W/UNV/1600C/2DIM+/P6/AUX	100W	500-1600mA (programmable)	1050mA	40-185V	0-10V	10-100%	Yes	Yes
79366	OT180W/UNV/800C/2DIMLT2/P6	180W	350-800mA (programmable)	530mA	82-280V	0-10V	10-100%	Yes	Yes
79367	OT180W/UNV/1250C/2DIMLT2/P6	180W	600-1250mA (programmable)	700mA	70-210V	0-10V	10-100%	Yes	Yes
58051	OTI200W/UNV/900C/2DIM+/P6	200W	500-900mA (programmable)	700mA	125-285V	0-10V	10-100%	Yes	Yes
58052	OTI200W/UNV/900C/2DIM+/P6/AUX	200W	500-900mA (programmable)	700mA	125-285V	0-10V	10-100%	Yes	Yes
58055	OTI200W/UNV/1400C/2DIM+/P6	200W	900-1400mA (programmable)	1050mA	75-180V	0-10V	10-100%	Yes	Yes
58056	OTI200W/UNV/1400C/2DIM+/P6/AUX	200W	900-1400mA (programmable)	1050mA	75-180V	0-10V	10-100%	Yes	Yes
Input Voltage 120-277V (DALI/DEXAL)									
57501	OTI60W/UNV/1600C/DALI/P6	60W	500-1600mA (programmable)	1050mA	15-55V	DALI	10-100%	Yes	Yes
57502	OTI60W/UNV/1600C/DX/AUX ²	60W	500-1600mA (programmable)	1050mA	15-55V	DEXAL	10-100%	Yes	Yes
57557	OTI60W/UNV/1600C/DX/DNN/AUX ²	60W	500-1600mA (programmable)	1050mA	15-55V	DEXAL	10-100%	Yes	Yes
Input Voltage 347-480V									
57511	OTI95W/HV/2750C/2DIM+/P6/AUX	95W	700-2700mA (programmable)	2700mA	15-54V	0-10V	1-100%	Yes	Yes
79206	OT100W/347-480/800C/2DIMLT2/P6	100W	350-800mA (programmable)	530mA	50-185V	0-10V	10-100%	Yes	Yes
79207	OT100W/347-480/1250C/2DIMLT2/P6	100W	600-1250mA (programmable)	700mA	30-100V	0-10V	10-100%	Yes	Yes
79208	OT180W/347-480/800C/2DIMLT2/P6	180W	350-800mA (programmable)	530mA	82-280V	0-10V	10-100%	Yes	Yes
79209	OT180W/347-480/1250C/2DIMLT2/P6	180W	600-1250mA (programmable)	700mA	70-210V	0-10V	10-100%	Yes	Yes

1. LED thermal protection is programmable.
 2. 57502 & 57557 - DALI and DALI Certified



OPTOTRONIC®

Surge Protection Devices for Outdoor LED Drivers



Features and Benefits

- Thermal fail-safe protection
- Flameproof plastic enclosure
- Load disconnect at end of life
- LED protection indicator
- Parallel or series connection
- Three sizing options
- 10kV and 20kV models
- IP66 Rated
- Available in 120V, 277V, 347V, and 480V_{AC} 50/60Hz
- UL1449 recognition

Specifications and Certifications



E514682
Type 5

Ordering Information

Item Number	Description	Mains Voltage (V _{AC})	Surge Rating	Max. Voltage	MLV (Measured Limiting Voltage) (V _{AC})			Nominal Current	LED indicator	IP Rating	Connection Type	UL1449	ANSI C82.77-5-2015		Dimensions L x W x H (in)
					L-N	L-G	N-G						Location	Rating	
57572	OT/SPD/277/20KV/P6/P/S2	277	20kV	320	3020	1900	1900	10kA	No	IP66	Parallel	Yes	C High		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	Pending	C High		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	Pending	C High		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	Pending	C High		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	Yes	C High		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	Pending	C High		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	Pending	C High		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	Pending	C High		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	Pending	C High		2.17 x 2.09 x 1.77

OPTOTRONIC®

Constant Voltage LED Power Supplies



Features and Benefits

- Damp-rated designs available for use in outdoor applications
- Wide input voltage range: 120-277V_{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
- Enclosures for variety of applications and fixture designs
- UL Class 2 output for safe operation
- Exceptional line and load regulation

Specifications and Certifications



Ordering Information

Item Number	Ordering Abbreviation	Nominal Input Voltage (V)	Nominal Input Current (A)	Power Factor	Nominal Input Power (W)	Output Voltage (V _{OC})*	Output Power Range (W)	Max. Line Ripple (V)	UL File #	Location Rating			
12V LED Power Supplies													
51604	OT20W/12V/UNV	120 277	0.27 0.17	> 0.9	25	12	0.1-20	±1.0	E320395	Damp			
51632	OT60W/12V/UNV	120 277	0.60 0.26	0.99	71	12	1-60	±1.0	E320395 E258264	Wet**			
24V LED Power Supplies													
51804	OT20W/24V/UNV	120 277	0.27 0.17	> 0.9	25	24	0.1-20	±1.0	E320395	Damp			
51598	OT50W/24V/120V/LP	120	0.47	0.99	56	24	0.9-50	±0.2	E248522	Dry			
51522	OT96W/24V/UNV	120 277	0.97 0.39	0.9	107	24	1-96	±1.0	E320395	Dry			
51626	OT96W/24V/UNV/JBX	120 277	0.91 0.39	0.99	108	24	0.8-96	±1.0	E320395 UL Listed	Wet**			
Item Number	Ordering Abbreviation	Nominal Input Voltage (V)	Nominal Input Current (A)	Power Factor	Nominal Input Power (W)	Output Voltage (V _{OC})*	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	1-60	±1.0	PWM	0-10V _{DC}	10-100%	E320395 E258264	Dry
51520	OT96W/24V/UNV/DIM	120 277	0.97 0.39	0.9	107	24	1-96	±1.0	PWM	0-10V _{DC}	10-100%	E320395	Dry

*Output Voltage Tolerance ±5%

**Use wiring rated and marked PLTC, CL3R, and "sun resistant"

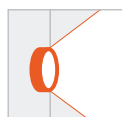
Note:

1. All power supplies can be remotely mounted up to 32 feet. Although it is possible to exceed the remote mounting distance, the installer and/or end user must take precautions to prevent and/or test the effects of EMI (electromagnetic interference).

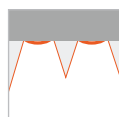
Where can OPTOTRONIC® compact drivers be used?



Pendant luminaires (round)



Wall and ceiling luminaires (round)



Home and decorative lighting



Spotlights



Downlights

Optimally paired with high efficiency PrevaLED® Spot and Downlight modules

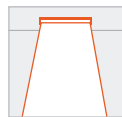


PrevaLED Cube DC

Where can OPTOTRONIC® linear drivers be used?



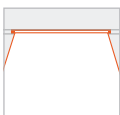
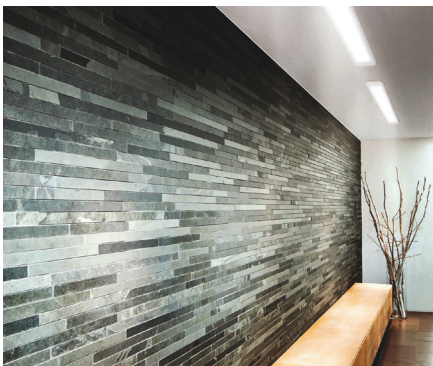
Suspended luminaires



Surface-mounted luminaires



Wall and ceiling luminaires



Recessed luminaires



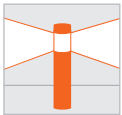
Industrial luminaires

Optimally paired with PrevaLED® Linear and Area modules



PrevaLED Linear and Area Modules

Where can OPTOTRONIC® outdoor drivers be used?



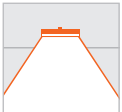
Bollard luminaires



Wallpack luminaires



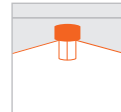
Area light luminaires



Industrial highbay luminaires



Cobrahead luminaires



Hazardous location luminaires

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