



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 2012 marked the 10-year anniversary of OPTOTRONIC® Power Supplies powering LED systems across the globe. Over this decade, OPTOTRONIC LED Power Supplies have become the industry standard for robust performance, reliability and peace of mind.



A History of OPTOTRONIC Power Supplies

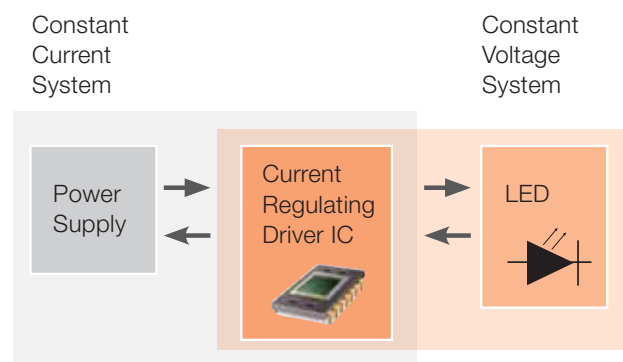
2002	2003	2004	2005	2006
OPTOTRONIC is born First OPTOTRONIC 24V constant voltage power supply – OT75W	First OPTOTRONIC Control Interfaces make dimming of LED lighting possible	First OPTOTRONIC 10V constant voltage power supply – OT50W	First OPTOTRONIC constant current power supply – OT9W/350C	OSRAM's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

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
 - Phase-cut

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.

2007

Thinnest LED power supply worldwide – OT50W/LP

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

OPTOTRONIC® Programming

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

Features Include:



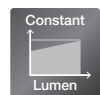
AstroDIM

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.



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.



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.

A History of OPTOTRONIC Power Supplies

2013

First production friendly programmable drivers – OT40W & OT25W

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

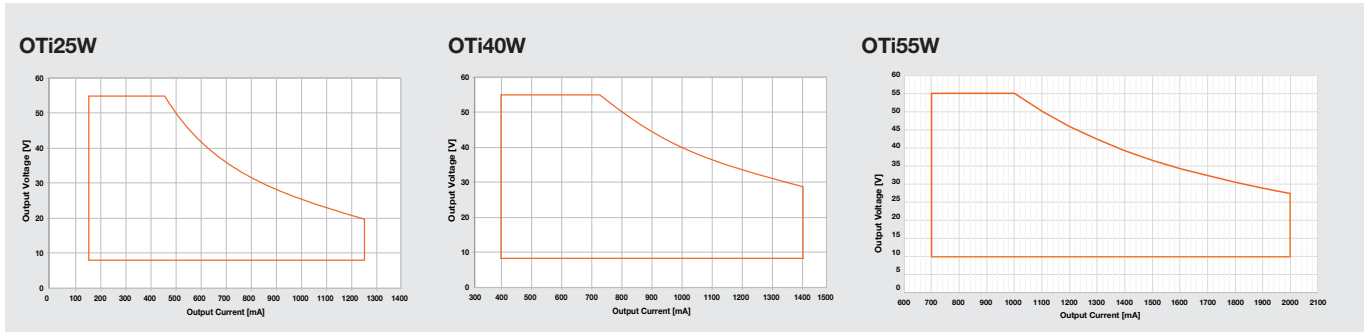
2018

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

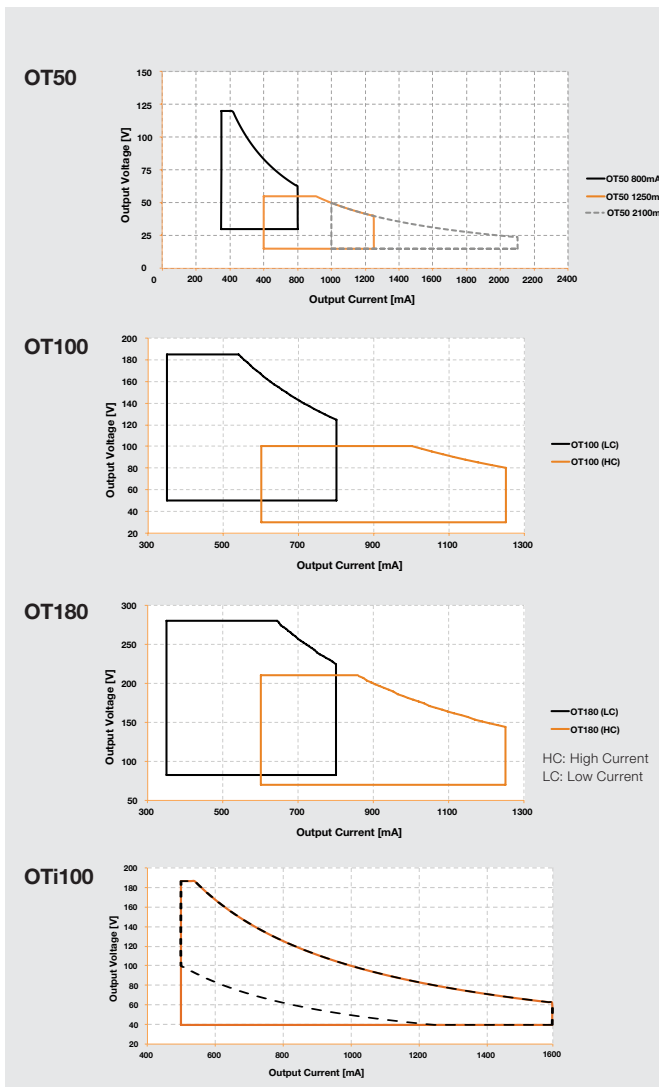
Programmable Output Ranges

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

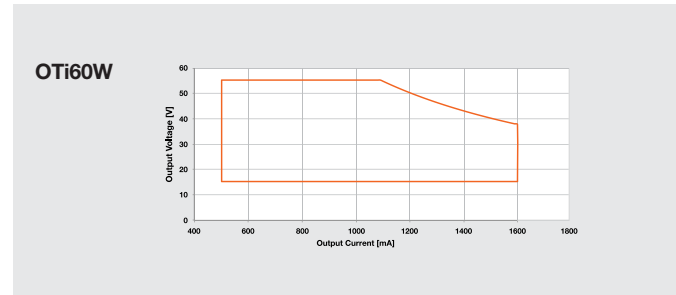
Compact



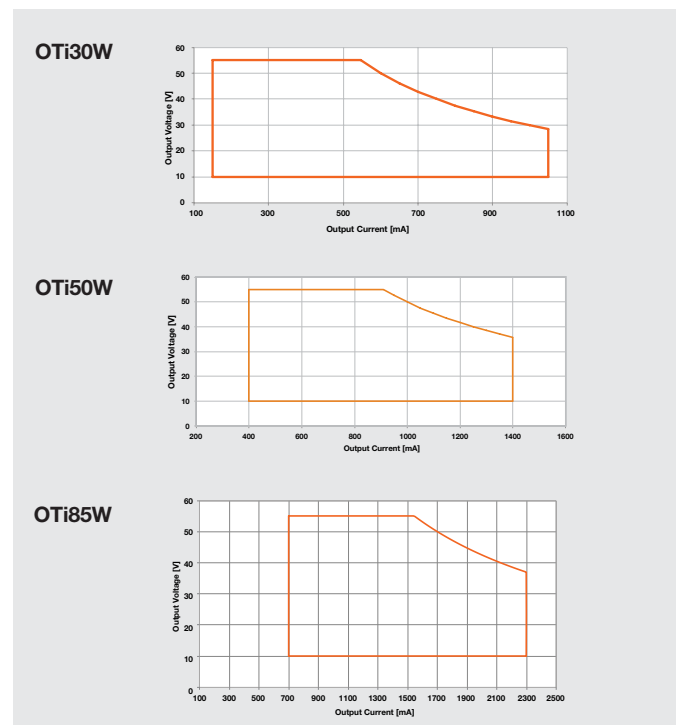
Outdoor



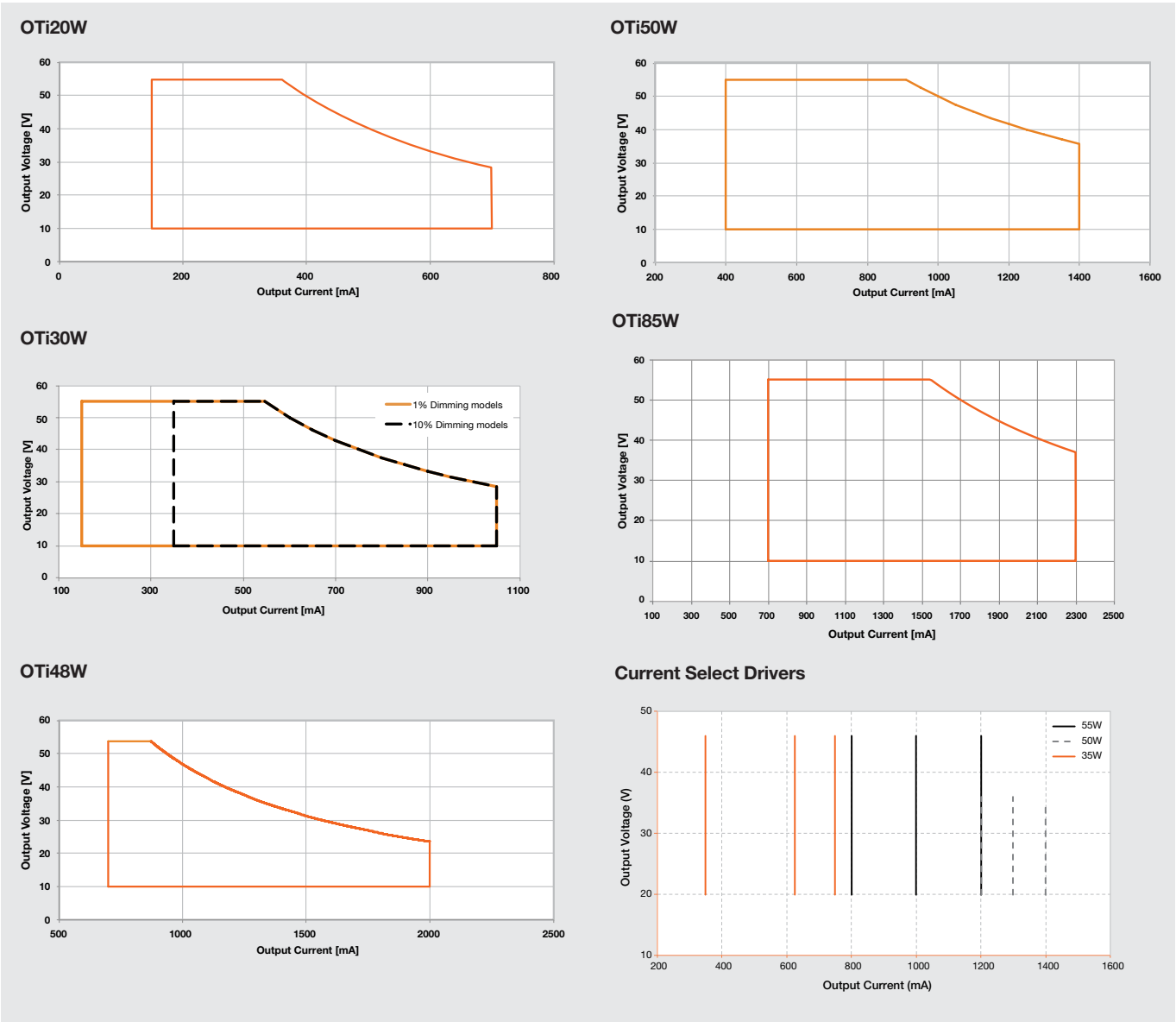
DALI - Outdoor



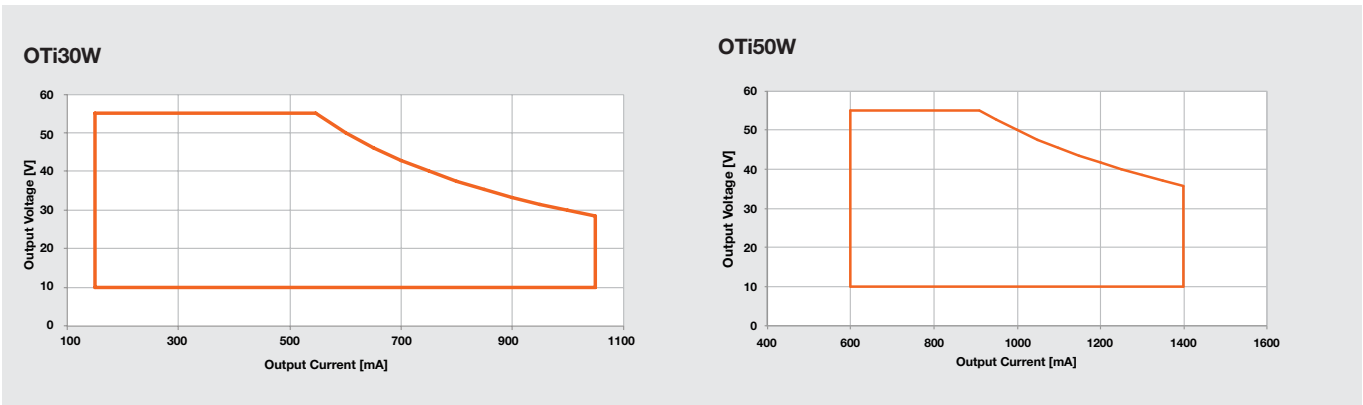
DEXAL® - Indoor



Linear



Emergency Drivers

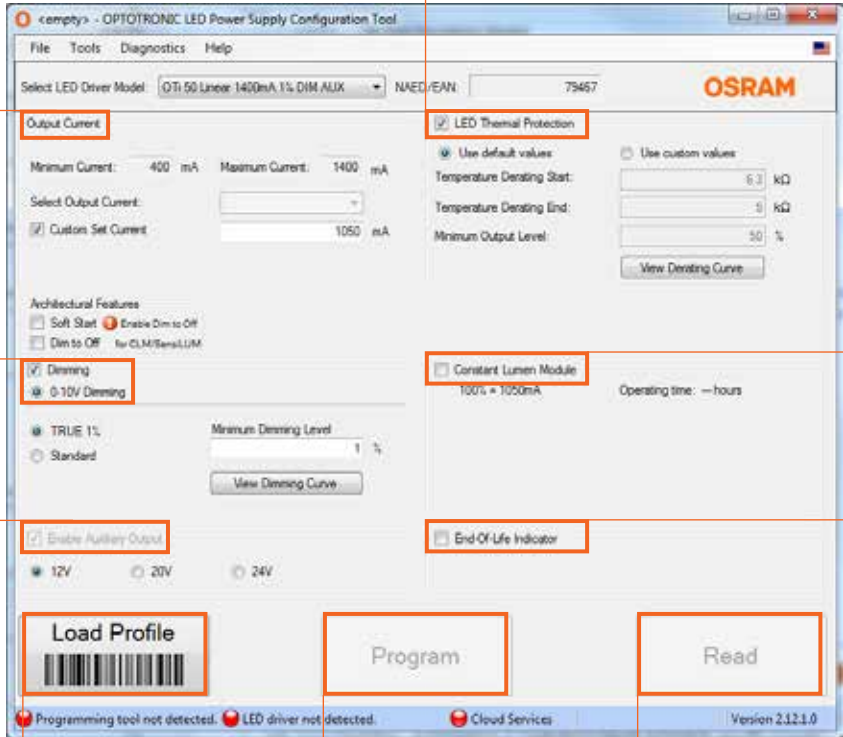


Software

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 interface. Callouts point to the following features:

- Output Current:** Programmable within a 1mA resolution. The interface shows a range from 400 mA to 1400 mA, with a custom set current of 1050 mA.
- LED Thermal Protection:** Output current foldback based on negative thermal coefficient (NTC) feedback. The interface includes options for "Use default values" and "Use custom values" with fields for Temperature Derating Start, Temperature Derating End, and Minimum Output Level.
- Dimming protocol and dimming level:** The interface shows options for "TRUE 1%" and "Standard" dimming, along with a "Minimum Dimming Level" slider.
- Auxiliary Output selection:** The interface shows options for "12V", "20V", and "24V" auxiliary output.
- Constant Lumen Module:** Eight programmable data points to compensate for module lumen depreciation. The interface shows a "Constant Lumen Module" checkbox and a "Minimum Dimming Level" slider.
- End-Of-Life Indicator:** Customizable kHours to indicate luminaire upgrade/replacement. The interface shows an "End-Of-Life Indicator" checkbox.
- Load Profile:** Programming based on the barcode reader. The interface shows a "Load Profile" section with a barcode.
- Program:** Single click programming for multiple drivers. The interface shows a "Program" button.
- Read:** Read programmed parameters and operating life of driver. The interface shows a "Read" button.

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	OTOOutdoorPRGTool	Outdoor Programming Tool	No



OT Programmer



Linear Handheld Programming Tool



Linear Auto Programming Tool



Outdoor Programming Tool



Compact 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.

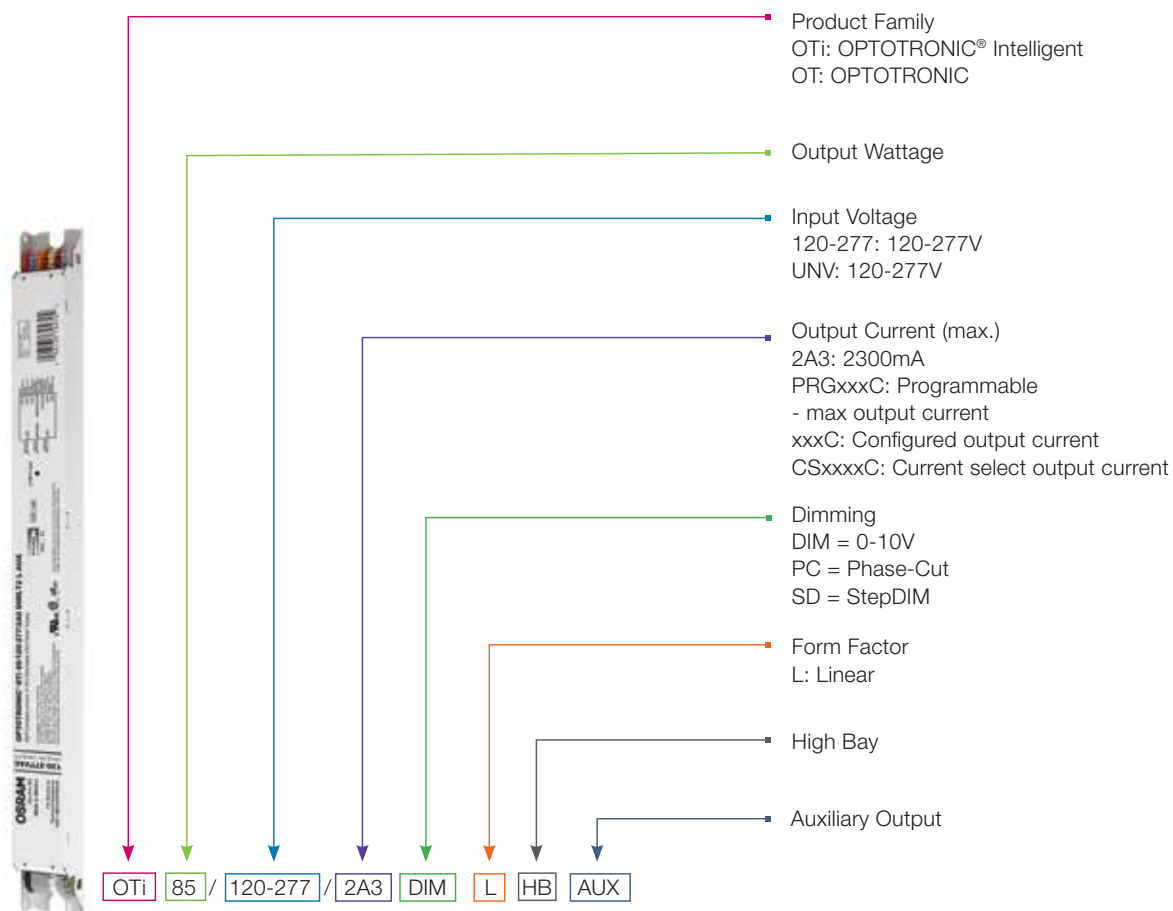


For more detailed information please visit www.osram.us/warranty

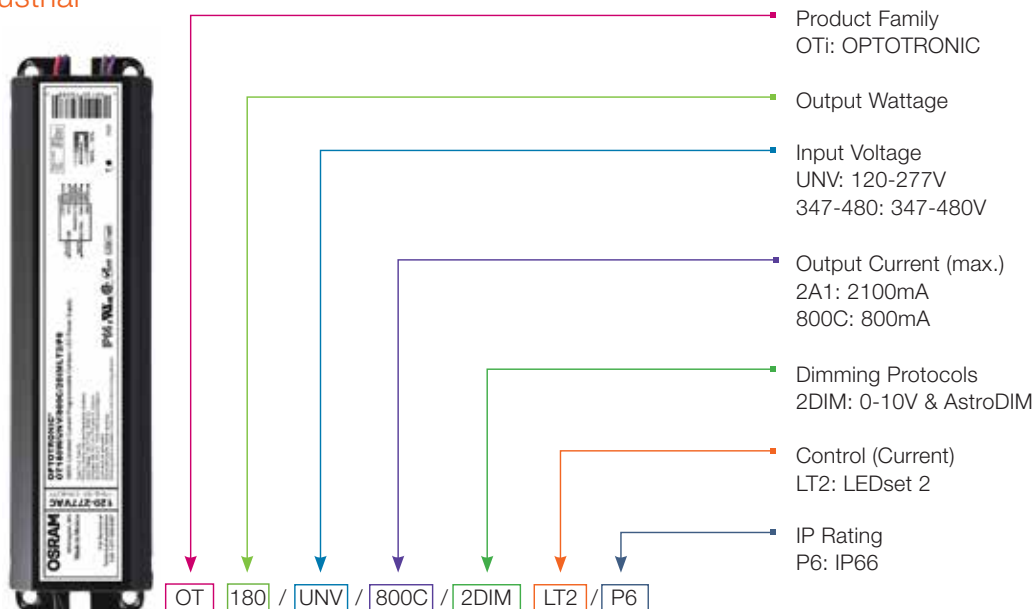


Ordering Guide

Indoor



Outdoor/Industrial



OPTOTRONIC®

Linear Programmable Dimmable LED Drivers



Features and Benefits

- OEM 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
- Programming doesn't require powering up or connecting the power supply to AC line voltage
- Specification grade dimming down to 1% or 10% on 0-10V dimmers
- Auxiliary output to power 12V, 20V, and 24V low power applications
- Euro-style 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	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
57423	OTi 85/120-277/2A3 DIM L AUX	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
57427	OTi 85/120-277/2A3 DIM L HB AUX	85W	700-2300mA (programmable)	1400mA	10-55V	0-10V	10%	Yes
HB refers to highbay versions that have 6kV surge protection								
OTi50								
79467	OTi50/120-277/1A4 DIM-1 L AUX	50W	400-1400mA (programmable)	1050mA	10-55V	0-10V	1-100%	Yes
79516	OTi50/120-277/1A4 DIM-1 L	50W	400-1400mA (programmable)	1050mA	10-55V	0-10V	1-100%	Yes
79631	OTi50/120-277/1A4 DIM L	50W	400-1400mA (programmable)	1050mA	10-55V	0-10V	10-100%	Yes
OTi48								
79468	OTi48/120-277/2A0 DIM-1 L AUX	48W	700-2000mA (programmable)	1400mA	10-55V	0-10V	1-100%	Yes
79517	OTi48/120-277/2A0 DIM-1 L	48W	700-2000mA (programmable)	1400mA	10-55V	0-10V	1-100%	Yes
79632	OTi48/120-277/2A0 DIM L	48W	700-2000mA (programmable)	1400mA	10-55V	0-10V	10-100%	Yes
OTi30								
79466	OTi30/120-277/1A0 DIM-1 L AUX	30W	150-1050mA (programmable)	700mA	10-55V	0-10V	1-100%	Yes
79515	OTi30/120-277/1A0 DIM-1 L	30W	150-1050mA (programmable)	700mA	10-55V	0-10V	1-100%	Yes
79630	OTi30/120-277/1A0 DIM L	30W	350-1050mA (programmable)	700mA	10-55V	0-10V	10-100%	Yes
OTi20								
79532	OTi20/120-277/0A7 DIM-1 L AUX	20W	150-700mA (programmable)	500mA	10-55V	0-10V	1-100%	Yes
79534	OTi20/120-277/0A7 DIM-1 L	20W	150-700mA (programmable)	500mA	10-55V	0-10V	1-100%	Yes
79535	OTi20/120-277/0A7 DIM L	20W	150-700mA (programmable)	500mA	10-55V	0-10V	10-100%	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®

OPTOTRONIC® 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	10-55V	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	150-1050mA1 (programmable)	700mA	10-56V	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 Programmable 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 (W)	Output Current Range (mA)	Output Voltage Range (V _{oc})	Dimming Control	Dimming Range
79376	OT30W/CS1050C/UNV/SD/L	30	250, 350, 500, 700, 1050	25-55	Step-DIM	50/100%
79377	OT50W/CS1400C/UNV/SD/L	50	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®

Programmable Emergency LED Drivers



Features and Benefits

- OEM programmable output current to 1mA resolution in normal and emergency mode to perfectly match LED load and maximize performance
- Easily program output to accommodate for 1 ft. candle illumination requirement
- Switch over from Normal to Emergency Mode in less than 2 seconds
- 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
- Illuminated test switch to perform manual emergency operation test and report outcome
- Quick snap-on polarized battery harness substantially reduces wiring complexity and prevents mis-wiring
- Multiple battery pack options available to suit an array of luminaire designs
- Specification grade dimming down to 1% on 0-10V dimmers
- Available optional auxiliary output to support 12V, 20V and 24V low power applications
- Available in Universal 120-277V_{AC} 50/60Hz
- UL Listed for factory or field installation in US and Canada
- Meets Title 24 CEC (California Energy Commission) efficiency standards

Product Recognition



Specifications and Certifications



Ordering Information

Item Number	Ordering Abbreviation	Normal Mode Output Power (W)	Maximum EM Mode Power (W)	Output Current (mA) ¹	Default Current Setting (mA)	Output Voltage Range (V _{oc})	Dimming Protocol	Dimming Range**	Self Testing
LED Driver*									
57403	OTi EM 30/UNV/1A0 DIM-1 L	30	18	150-1050	700	10-55	0-10V	1-100%	No
57404	OTi EM 30/UNV/1A0 DIM-1 L AUX/ST L	30	18	150-1050	700	10-55	0-10V	1-100%	Yes
57405	OTi EM 50/UNV/1A4 DIM-1 L	50	18	400-1400	1050	10-55	0-10V	1-100%	No
57406	OTi EM 50/UNV/1A4 DIM-1 L AUX/ST L	50	18	400-1400	1050	10-55	0-10V	1-100%	Yes
57415*	OTi EM 30/UNV/1A0 DIM-1 SLIM	30	10	150-1050	700	10-55	0-10V	1-100%*	No
57414*	OTi EM 30/UNV/1A0 DIM-1/AUX/ST SLIM	30	10	150-1050	700	10-55	0-10V	1-100%*	Yes
57413*	OTi EM 50/UNV/1A4 DIM-1 SLIM	50	10	400-1400	1050	10-55	0-10V	1-100%*	No
57412*	OTi EM 50/UNV/1A4 DIM-1/AUX/ST SLIM	50	10	400-1400	1050	10-55	0-10V	1-100%*	Yes

Item Number	Ordering Abbreviation	Type	Capacity	Max Load ²	Max Battery Voltage	Charging Time
Battery Packs*						
57401	OT BAT 8x2- 3A0H- L	Ni-Cd	3000 mAh	18W (90min)	25V	24 hrs
57402	OT BAT 4x4- 3A0H -C	Ni-Cd	3000 mAh	18W (90min)	25V	24 hrs
57410	OT BAT 16x1 3A0H-L	Ni-Cd	3000 mAh	12W (90min)	25V	24 hrs
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.

**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®

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 120-277VAC 50/60Hz
- UL Class 2 output
- UL Class P Listed

Specifications and Certifications



Ordering Information

Item Number	Ordering Abbreviation	Total Output Power	Default Selectable Currents	Output Voltage Range (V _{oc})	Dimming Control	Dimming Range	LED Thermal Protection
OT55							
57437	OT 55W/UNV/1A2 CS L	55W	800mA/1000mA/1200mA	20-46V	—	—	No
57438	OT 55W/UNV/1A2 CS DIM L	55W	800mA/1000mA/1200mA	20-46V	0-10V	10-100%	No
OT50							
57439	OT 50W/UNV/1A4 CS L	50W	1200mA/1300mA/1400mA	20-36V	—	—	No
57440	OT 50W/UNV/1A4 CS DIM L	50W	1200mA/1300mA/1400mA	20-36V	0-10V	10-100%	No
OT35							
57435	OT 35W/UNV/0A75 CS L	35W	350mA/625mA/750mA	20-46V	—	—	No
57436	OT 35W/UNV/0A75 CS DIM L	35W	350mA/625mA/750mA	20-46V	0-10V	10-100%	No

OPTOTRONIC®

Programmable Compact Constant Current Dimmable LED Power Supplies



Product Recognition

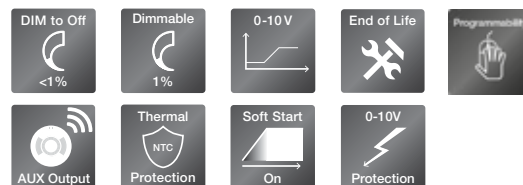


Specifications and Certifications

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

- Universal input voltage – 347V_{AC} 50/60Hz
- UL Class 2 output for safe operation
- Protection against line voltage on 0-10V dimming wires
- AUX Output models available
- Custom programmable with 1mA resolution to perfectly match LED load and maximize performance
- Programming does not require powering up or connecting the power supply to AC line voltage
- Wide output current and voltage range
- Available in dimming to 1% with 0-10V dimmers
- Integrated OEM program-mable features include:
 - Constant lumen maintenance
 - End-of-life indication
 - LED thermal protection
 - Vaux (12V/20V/24V)
 - Soft start
 - Dim-to-Off
- Familiar standard industry housing – 5.0" x 2.4" x 1.1" (L x W x H)
- Available with mounting feet (F-style) or PEM studs (J-style) to simplify installation



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
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
57355	OTI55W/120-277/2A0/DIM-1	55W	700-2000 mA (Programmable)	1000mA	10-55V	0-10V	1-100%	Yes	F-Style
57356	OTI55W/120-277/2A0/DIM-1/J	55W	700-2000 mA (Programmable)	1000mA	10-55V	0-10V	1-100%	Yes	J-Style
57357	OTI55W/120-277/2A0/DIM-1 AUX	55W	700-2000 mA (Programmable)	1000mA	10-55V	0-10V	1-100%	Yes	F-Style
57358	OTI55W/120-277/2A0/DIM-1/J AUX	55W	700-2000 mA (Programmable)	1000mA	10-55V	0-10V	1-100%	Yes	J-Style

OPTOTRONIC®

Programmable Outdoor/Industrial 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
 - LED thermal protection
 - AUX output
 - AstroDIM
 - LEDset
- 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
Input Voltage 120-277V								
79370	OT50W/UNV/800C/2DIMLT2/P6	50W	350-800mA (Programmable)	530mA	30-120V	0-10V	10-100%	Yes
79371	OT50W/UNV/1250C/2DIMLT2/P6	50W	600-1250mA (Programmable)	700mA	15-55V	0-10V	10-100%	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
57510	OTi95W/UNV/2750C/2DIM+/P6/AUX	95W	700-2750mA (programmable)	2700mA	15-54V	0-10V	1-100%	Yes
79368	OT100W/UNV/800C/2DIMLT2/P6	100W	350-800mA (Programmable)	530mA	50-185V	0-10V	10-100%	Yes
79369	OT100W/UNV/1250C/2DIMLT2/P6	100W	600-1250mA (Programmable)	700mA	30-100V	0-10V	10-100%	Yes
57505	OTi100W/UNV/1600C/2DIM+/P6/AUX	100W	500-1600mA (Programmable)	1050mA	40-185V	0-10V	10-100%	Yes
79366	OT180W/UNV/800C/2DIMLT2/P6	180W	350-800mA (Programmable)	530mA	82-280V	0-10V	10-100%	Yes
79367	OT180W/UNV/1250C/2DIMLT2/P6	180W	600-1250mA (Programmable)	700mA	70-210V	0-10V	10-100%	Yes
Input Voltage 120-277V (DALI)								
57501	OTi60W/UNV/1600C/DALI/P6	60W	500-1600mA (Programmable)	1050mA	15-55V	DALI	10-100%	Yes
Input Voltage 347-480V								
79206	OT100W/347-480/800C/2DIMLT2/P6	100W	350-800mA (Programmable)	530mA	50-185V	0-10V	10-100%	Yes
79207	OT100W/347-480/1250C/2DIMLT2/P6	100W	600-1250mA (Programmable)	700mA	30-100V	0-10V	10-100%	Yes
79208	OT180W/347-480/800C/2DIMLT2/P6	180W	350-800mA (Programmable)	530mA	82-280V	0-10V	10-100%	Yes
79209	OT180W/347-480/1250C/2DIMLT2/P6	180W	600-1250mA (Programmable)	700mA	70-210V	0-10V	10-100%	Yes

1. LED thermal protection is programmable.

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 (Voc)*	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	Wet**			
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 (Voc)*	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	0-10Vdc	10-100%	E320395 E258264	Wet**
51520	OT96W/24V/UNV/DIM	120 277	0.97 0.39	0.9	107	24	1-96	±1.0	PWM	0-10Vdc	10-100%	E320395	Wet**

*Output Voltage Tolerance ±5%

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

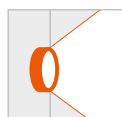
Note:

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).

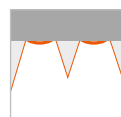
Where can OPTOTRONIC® compact drivers be used?



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?



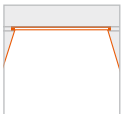
Suspended luminaires



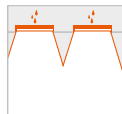
Surface-mounted luminaires



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?



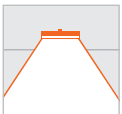
Bollard luminaires



Wallpack luminaires



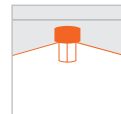
Area light luminaires



Industrial highbay luminaires



Cobrahead luminaires



Hazardous location luminaires

OSRAM SYLVANIA Inc.
200 Ballardvale Street
Wilmington, MA 01887 USA
1-877-636-5267
www.osram.us/ds

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