

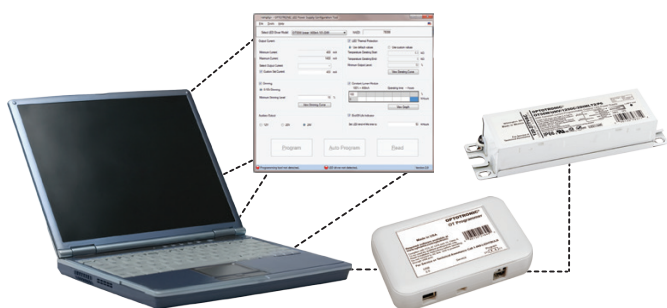


The OPTOTRONIC programmable dimmable family consists of highly efficient, constant current LED drivers for outdoor applications. One click programming through the OPTOTRONIC Programmer allows OEMs to configure the output current with 1mA resolution. Also fully customizable by the OEM are the proprietary AstroDIM and LEDset features. AstroDIM is autonomous dimming for night-time power reduction based on an internal timer that can be set for an entire year. The LEDset feature automatically sets the output current based on the module that is connected.

These drivers are available in dimming to 1% with built-in 0-10V dimming, enables direct integration and operation with standard dimmers, sensors, as well as energy and light management systems.

DEXAL® enables bi-directional communications between the driver and the fixture-integrated component. It provides exact luminaire-specific data, including diagnostics, to light management systems.

### Configuration Overview



### Application Information

#### Applications

- Architectural building mounted
- Bollards
- Cobra heads
- Decorative landscape lighting
- High-mast
- Industrial high bay
- Mini wall packs
- Roadway lighting
- Shoe box

### Key Features & Benefits

- OEM programmable with 1mA resolution to perfectly match LED load and maximize performance
- Dimming down to 1% on 0-10V dimmers and 10% on DALI\* or DEXAL\*
- Integrated OEM programmable features include
  - AstroDIM
  - LEDset
  - Constant lumen maintenance
  - LED thermal protection
  - AUX output
- Programming doesn't require powering up or connecting the power supply to AC line voltage
- High level of line transient protection in outdoor applications (6kV)
- 4kV EFT Protection for industrial applications
- Available in both Universal Input Voltage - 120-277V<sub>AC</sub> 50/60Hz and 347-480V<sub>AC</sub> 50/60Hz
- UL Damp Rated
- IP66 Rated
- UL Class P Listed

\*60W only

### Product Offering

Maximum Power	Input Voltage	Minimum Dimming	Output Current Range
50W	120-277V	10%	350-800mA
50W	120-277V	10%	600-1250mA
50W	120-277V	10%	1000-2100mA
60W <sup>1</sup>	120-277V	10%	500-1600mA
95W <sup>2</sup>	120-277V	1%	700-2750mA
95W <sup>2</sup>	347-480V	1%	700-2750mA
100W	120-277V	10%	350-800mA
100W	120-277V	10%	600-1250mA
100W <sup>2</sup>	120-277V	10%	500-1600mA
100W	347-480V	10%	350-800mA
100W	347-480V	10%	600-1250mA
180W	120-277V	10%	350-800mA
180W	120-277V	10%	600-1250mA
180W G2	120-277V	10%	1000-1800mA
180W	347-480V	10%	350-800mA
180W	347-480V	10%	600-1250mA
200W <sup>2</sup>	120-277V	10%	500-900mA
200W <sup>2</sup>	120-277V	10%	900-1400mA

1. DEXAL and DALI offerings  
 2. Driver with Aux and Dim-to-Off

### Specifications and Certifications



## Electrical Specifications

Maximum Output Power (W)	Nominal Input Voltage (VAC)	Maximum Input Current (A)	Power Factor	THD	Line Transient	Efficiency	Environmental Rating	UL File #	Type HL
50W	120-277V <sub>AC</sub> 50/60Hz	0.52 @ 120V 0.22 @ 277V	>0.9	<20%	ANSI C62.41 Category B 6kV	≥85%	Dry & Damp	E320395	Yes
60W	120-277V <sub>AC</sub> 50/60Hz	0.60 @ 120V 0.25 @ 277V	>0.9	<20%	ANSI C62.41 Category B 6kV	≥87%	Dry & Damp	E320395	Yes
95W	120-277V <sub>AC</sub> 50/60Hz	0.92 @ 120V 0.40 @ 277V	>0.9	<20%	ANSI C62.41 Category B 6kV	≥90%	Dry & Damp	E320395	Yes
95W	347-480V <sub>AC</sub> 50/60Hz	0.32 @ 347V 0.23 @ 480V	>0.9	<20%	ANSI C62.41 Category B 6kV	≥90%	Dry & Damp	E320395	Yes
100W	120-277V <sub>AC</sub> 50/60Hz	0.95 @ 120V 0.40 @ 277V	>0.9	<20%	ANSI C62.41 Category B 6kV	≥90%	Dry & Damp	E320395	Yes
100W	120-277V <sub>AC</sub> 50/60Hz	1.04 @ 120V 0.47 @ 277V	>0.9	<20%	ANSI C62.41 Category B 6kV	≥90%	Dry & Damp	E320395	Yes
100W	347-480V <sub>AC</sub> 50/60Hz	0.95 @ 347V 0.40 @ 480V	>0.9	<20%	ANSI C62.41 Category B 6kV	≥90%	Dry & Damp	E320395	Yes
180W	120-277V <sub>AC</sub> 50/60Hz	1.70 @ 120V 0.75 @ 277V	>0.9	<20%	ANSI C62.41 Category B 6kV	≥92%	Dry & Damp	E320395	Yes
180W G2	120-277V <sub>AC</sub> 50/60Hz	1.68 @ 120V 0.72 @ 277V	>0.9	<20%	ANSI C62.41 Category B 6kV, 4kV EFT	>94%	Dry & Damp	E320395	Yes
180W	347-480V <sub>AC</sub> 50/60Hz	0.60 @ 347V 0.44 @ 480V	>0.9	<20%	ANSI C62.41 Category B 6kV	≥91%	Dry & Damp	E320395	Yes
200W	120-277V <sub>AC</sub> 50/60Hz	1.83 @ 120V 0.80 @ 277V	>0.9	<20%	ANSI C62.41 Category B 6kV	≥93%	Dry & Damp	E320395	Yes

## Ordering Information

Item Number	Original Item Number	Ordering Abbreviation	Total Output Power	Output Current Range	Default Current Setting	Output Voltage Range (VDC)	Dimming Control	Dimming Range	LED Thermal Protection <sup>1</sup>	Class P
<b>Input Voltage 120-277V (0-10V)</b>										
*2743YM	79370	OT50W/UNV/800C/2DIMLT2/P6	50W	350-800mA (programmable)	530mA	30-120V	0-10V	10-100%	Yes	Yes
*2743YN	79371	OT50W/UNV/1250C/2DIMLT2/P6	50W	600-1250mA (programmable)	700mA	15-55V	0-10V	10-100%	Yes	Yes
*2743YG	79278	OTi50W/UNV/2100C/2DIMLT2/P6	50W	1000-2100mA (programmable)	2000mA	15-55V	0-10V	10-100%	Yes	—
*2743XJ	57509	OTi95W/UNV/2750C/2DIM+/P6	95W	700-2750mA (programmable)	2700mA	15-54V	0-10V	1-100%	Yes	Yes
*2743XK	57510	OTi95W/UNV/2750C/2DIM+/P6/AUX	95W	700-2750mA (programmable)	2700mA	15-54V	0-10V	1-100%	Yes	Yes
*2743YK	79368	OT100W/UNV/800C/2DIM/P6	100W	350-800mA (programmable)	530mA	50-185V	0-10V	10-100%	Yes	Yes
*2743YL	79369	OT100W/UNV/1250C/2DIM/P6	100W	600-1250mA (programmable)	700mA	30-100V	0-10V	10-100%	Yes	Yes
*2743XH	57505	OTi100W/UNV/1600C/2DIM+/P6/AUX	100W	500-1600mA (programmable)	1050mA	40-185V	0-10V	10-100%	Yes	Yes
*2743YH	79366	OT180W/UNV/800C/2DIM/P6	180W	350-800mA (programmable)	530mA	82-280V	0-10V	10-100%	Yes	Yes
*2743YJ	79367	OT180W/UNV/1250C/2DIM/P6	180W	600-1250mA (programmable)	700mA	70-210V	0-10V	10-100%	Yes	Yes
*275TK8	57536	OTi180W/UNV/800C/2DIM/P6/G2	180W	350-800mA	700mA	82-280V	0-10V	10-100%	Yes	Yes
*275TKE	57537	OTi180W/UNV/1250C/2DIM/P6/G2	180W	600-1250mA	1050mA	70-210V	0-10V	10-100%	Yes	Yes
*275TKH	57538	OTi180W/UNV/1800C/2DIM/P6/G2	180W	1000-1800mA	1500mA	50-150V	0-10V	10-100%	Yes	Yes
*2743Y2	58051	OTi200W/UNV/900C/2DIM+/P6	200W	500-900mA (programmable)	700mA	125-285V	0-10V	10-100%	Yes	Yes
*2743Y3	58052	OTi200W/UNV/900C/2DIM+/P6/AUX	200W	500-900mA (programmable)	700mA	125-285V	0-10V	10-100%	Yes	Yes
*2743Y4	58055	OTi200W/UNV/1400C/2DIM+/P6	200W	900-1400mA (programmable)	1050mA	75-180V	0-10V	10-100%	Yes	Yes
*2743Y5	58056	OTi200W/UNV/1400C/2DIM+/P6/AUX	200W	900-1400mA (programmable)	1050mA	75-180V	0-10V	10-100%	Yes	Yes
<b>Input Voltage 120-277V (DALI/DEXAL)</b>										
*2743XF	57501	OTi60W/UNV/1600C/DALI/P6	60W	500-1600mA (programmable)	1050mA	15-55V	DALI	10-100%	Yes	Yes
*2743XG	57502	OTi60W/UNV/1600C/DX/AUX	60W	500-1600mA (programmable)	1050mA	15-55V	DEXAL	10-100%	Yes	Yes
*2743XP	57557	OTi60W/UNV/1600C/DX/DNN/AUX	60W	500-1600mA (programmable)	1050mA	15-55V	DEXAL	10-100%	Yes	Yes
<b>Input Voltage 347-480V</b>										
*2743XL	57511	OTi95W/HV/2750C/2DIM+/P6/AUX	95W	700-2750mA (programmable)	2700mA	15-54V	0-10V	1-100%	Yes	Yes
*2743YA	79206	OT100W/347-480/800C/2DIM/P6	100W	350-800mA (programmable)	530mA	50-185V	0-10V	10-100%	Yes	Yes
*2743YC	79207	OT100W/347-480/1250C/2DIM/P6	100W	600-1250mA (programmable)	700mA	30-100V	0-10V	10-100%	Yes	Yes
*2743YE	79208	OT180W/347-480/800C/2DIM/P6	180W	350-800mA (programmable)	530mA	82-280V	0-10V	10-100%	Yes	Yes
*2743YF	79209	OT180W/347-480/1250C/2DIM/P6	180W	600-1250mA (programmable)	700mA	70-210V	0-10V	10-100%	Yes	Yes

1. LED thermal protection is programmable.

## Ordering Guide

OT	50W	/	UNV	/	800C	/	2DIM	+	LT2	/	P6	AUX
OT = OPTOTRONIC® OTi = OPTOTRONIC Intelligent	Output Wattage		Input Voltage UNV = 120-277V 347-480 = 347-480V		Max. Output Current (mA)		0-10V Dimming DALI DEXAL®	AstroDIM	LEDset 2		IP66	AUX Available

## Accessories



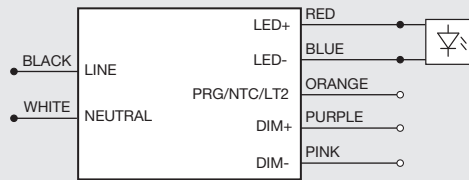
Item Number	Original Item Number	Ordering Abbreviation	Description	Required Accessory
*274A17	51645	OTPROGRAMMER	USB Programming Tool	Yes
*2743V2	79360	OTOutdoorPGRMTool	Programming Tool for Outdoor Drivers	No

## Minimum and Maximum Ratings

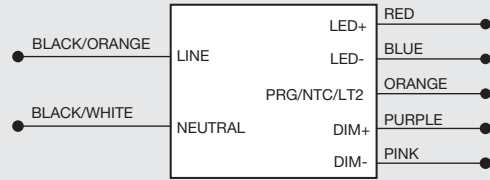
Parameter	Values
Input Voltage Range	108-305V <sub>Ac</sub> ; 312-528V <sub>Ac</sub>
Maximum Case Temperature (T <sub>c</sub> point)	90°C (194°F); 88°C (190°F) for OTi200W; 85°C (185°F) for OTi95W UNV and OTi100W; 80°C (176°F) for OTi60W
Maximum Case Temperature for 5-Year Life and Warranty	85°C (185°F) for OTi95W HV; 80°C (176°F) for OTi100W; 75°C (167°F) for OTi60W
Ambient Operating Temperature (reference)	-40°C to 60°C (-40°F to 140°F) for OTi60W and OTi95W UNV -40°C to 55°C (-40°F to 131°F) for OTi95W HV, OTi100W, OTi180W and OTi200W
Storage Temperature	70°C Max (158°F)
Maximum Relative Humidity	95% (Non-condensing)

## Wiring Diagram

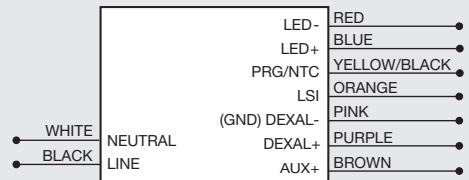
### 120-277V (0-10V)



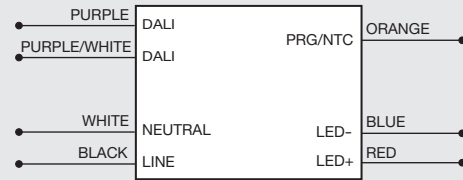
### 347-480V



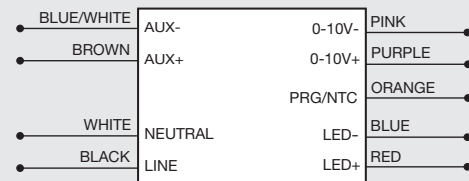
### OTi60W (DEXAL)



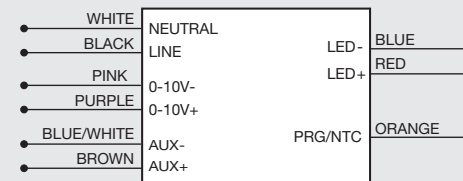
### OTi60W (DALI)



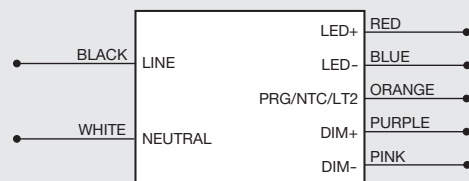
### OTi100W



### OTi95W and OTi200W



### OTi180W



#### Notes:

1. Always ensure the load is within the power supply rating for current, voltage and wattage.
2. The number of boards that can be connected in parallel depends on power supply output specification.
3. Connecting boards in series is not recommended.

# Assembly Diagram

**OT50W**

0.4 (9.0)  
STRIP LENGTH

1.2 (30)  
HEIGHT

**OT100W**

0.4 (9.0)  
STRIP LENGTH

6.6 (168)  
LENGTH

6.0 (152)  
MOUNTING

0.3 (8.7)  
MOUNTING SLOT  
WIDTH

1.7 (43)  
WIDTH

**OT180W**

0.4 (9.0)  
STRIP LENGTH

1.5 (38)  
HEIGHT

6.6 (168)  
LENGTH

6.0 (152)  
MOUNTING

0.3 (7)  
MOUNTING SLOT  
WIDTH

2.4 (60)  
WIDTH

**OTi180W**

0.4 (9.0)  
STRIP LENGTH

9.5 (241)  
LENGTH

8.7 (222)  
MOUNTING

1.5 (38)  
HEIGHT

0.4 (8)  
MOUNTING SLOT  
WIDTH

2.4 (60)  
WIDTH

**OTi60W**

0.35 (9.0)  
STRIP LENGTH

9.5 (241)  
LENGTH

8.9 (226.3)  
MOUNTING

1.5 (38.1)  
HEIGHT

0.4 (8)  
MOUNTING SLOT  
WIDTH

2.4 (59.9)  
WIDTH

**OTi95W, OTi100W  
and OTi200W**

0.4 (9.0)  
STRIP LENGTH

1.50 (38.1)  
HEIGHT

5.03 (127.7)  
MOUNTING

0.34 (8.7)  
MOUNTING SLOT  
WIDTH

5.50 (139.7)  
LENGTH

3.70 (94.0)  
WIDTH

1.5 (38.3)  
HEIGHT

9.5 (240.5)  
LENGTH

8.9 (226.3)  
MOUNTING

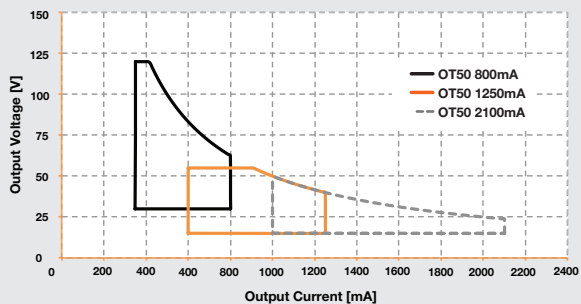
2.3 (59.4)  
WIDTH

0.3 (8.7)  
MOUNTING SLOT  
WIDTH

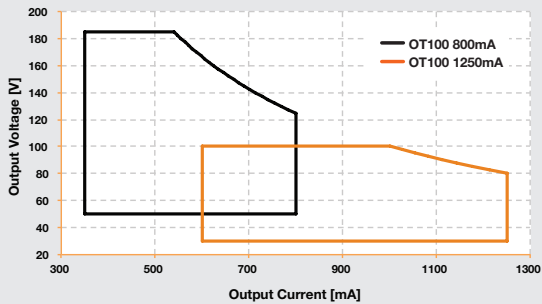
Dimensions: in [mm]

# Operating Range

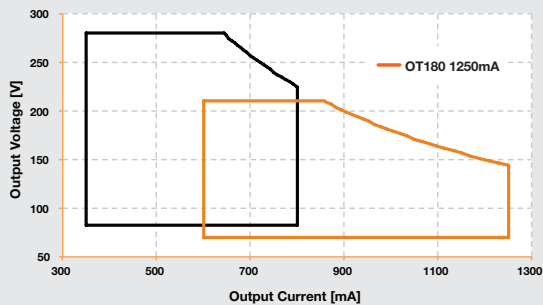
OT50W



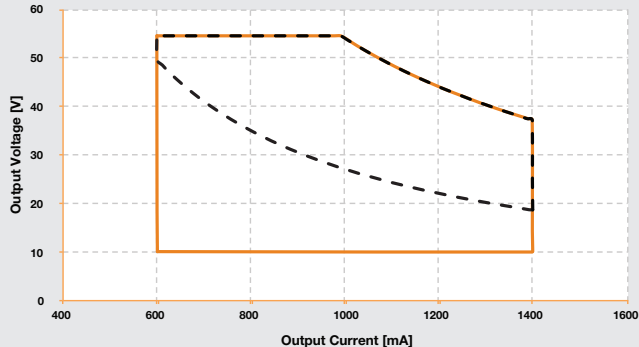
OT100W



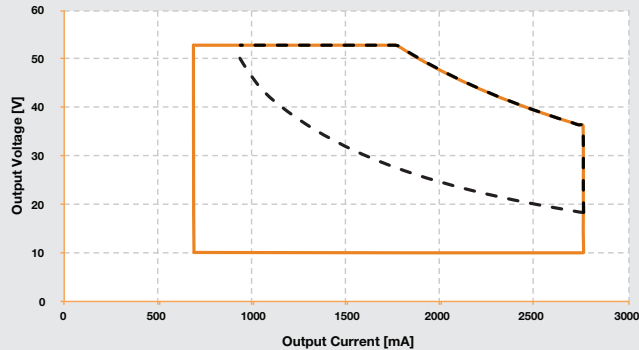
OT180W



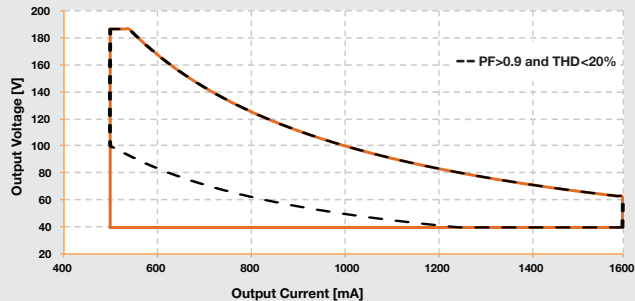
OTi60W



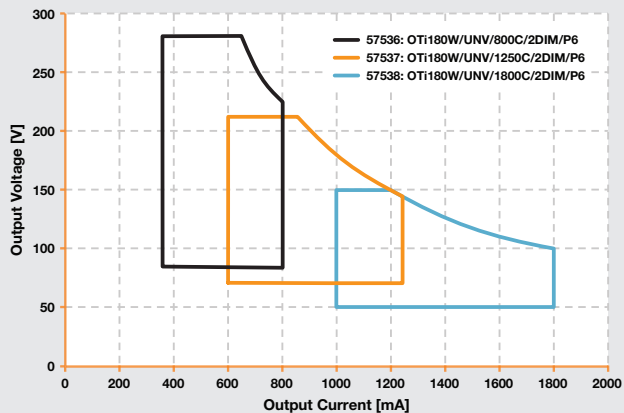
OTi95W



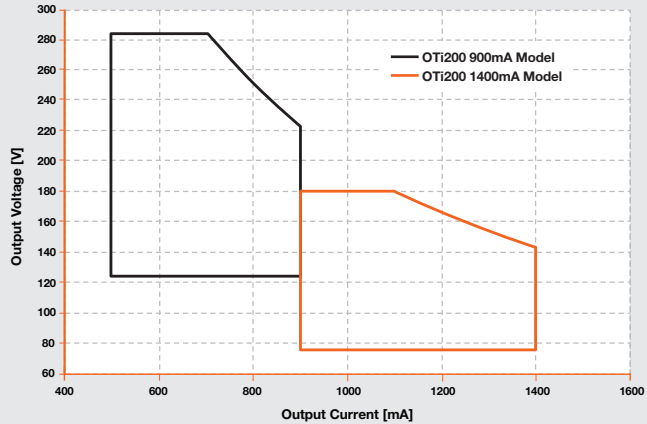
OTi100W



OTi180W



OTi200W



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**Packaging****OT50W**

Quantity: 20 pieces per case  
Weight: 0.9 lbs ea./18 lbs  
per case (approx.)

**OT100W**

Quantity: 20 pieces per case  
Weight: 1.4 lbs ea./28 lbs  
per case (approx.)

**OT180W**

Quantity: 10 pieces per case  
Weight: 2.2 lbs ea./22 lbs  
per case (approx.)

**OTi60W**

Quantity: 20 pieces per case  
Weight: 0.88 lbs ea./17.6 lbs  
per case (approx.)

**OTi95W**

Quantity: 10 pieces per case  
Weight: 1.98 lbs ea./19.8 lbs  
per case (approx.)

**OTi100W**

Quantity: 10 pieces per case  
Weight: 1.98 lbs ea./19.8 lbs  
per case (approx.)

**OTi180W and OTi200W**

Quantity: 10 pieces per case  
Weight: 2.3 lbs ea./22.8 lbs  
per case (approx.)

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**Warranty**

eldoLED OPTOTRONIC® Products are covered by a 5-year limited warranty. Complete warranty terms can be found at:  
<https://www.eldoled.com/legal/terms-and-conditions>

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Specifications subject to change without notice. Actual performance may differ as a result of end-user environment and application.