



The OPTOTRONIC Compact Drivers have several architectural grade features that offer functionality that supports architectural lighting design. OPTOTRONIC LED drivers support true 1% dimming across the entire driver programmable output current range. This key specification gives lighting designers the flexibility and precise light output they require. The synchronized ON/OFF timing and dimming control meet efficacy requirements and ensure consistent dimming levels across multiple luminaires. The DIM-to-OFF feature enables luminaires to smoothly transition from dim to off. And, offers an AUX power output option to power and extend DIM-to-OFF capability to fixture-integrated sensors and controls.

OEMs can fully customize programmable features into a driver which helps optimize production line efficiency by utilizing the one-click programming feature of the OPTOTRONIC Programmer. The OPTOTRONIC Programmer does not require the power supply to be powered up or connected to AC line voltage while programming.

### Application Information

#### Applications

- Architectural
- Downlights
- In-grade fixtures
- Recessed troffer
- Wall washing

### Key Features & Benefits

- Architectural-grade features include:
  - True 1% dimming
  - Synchronized ON/OFF and dimming control
  - DIM to OFF
  - Dimming interface protection
- Custom programmable with 1 mA 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
- Universal Input Voltage
  - 120-277V<sub>AC</sub> 50/60Hz
  - 347V<sub>AC</sub> 50/60Hz
- UL Class 2 output for safe operation

### Product Offering

Max. Power	Housing Type	Connectors	Minimum Dimming	Output Current Range	Dedicated Aux <sup>3</sup> 12V/20V/24V
25W	F-style <sup>1</sup>	Dual Entry	1%	150–1250mA	Yes
25W	J-style <sup>2</sup>	Bottom Feed	1%	150–1250mA	Yes
40W	F-style <sup>1</sup>	Dual Entry	1%	400–1400mA	Yes
40W	J-style <sup>2</sup>	Bottom Feed	1%	400–1400mA	Yes
55W	F-style <sup>1</sup>	Dual Entry	1%	700–2000mA	Yes
55W	J-style <sup>2</sup>	Bottom Feed	1%	700–2000mA	Yes

<sup>1</sup> feet

<sup>2</sup> PEM stud

<sup>3</sup> 1W max

### 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

## Electrical Specifications

Maximum Output Power (W)	Nominal Input Voltage (Vac)	Maximum Input Current (A)	Power Factor	THD	Line Transient	Efficiency	Environmental Rating	UL File #
25W	120-277Vac 50/60 Hz	0.26A @ 120V 0.12A @ 277V	>0.9	<20%	NEMA SSL1-2010	87%	Damp/Dry	E320395
25W	347Vac 50/60 Hz	0.105 @ 347V	>0.9	<20%	NEMA SSL1-2010	85%	Damp/Dry	E320395
40W	120-277Vac 50/60 Hz	0.41A @ 120V 0.18A @ 277V	>0.9	<20%	NEMA SSL1-2010	87%	Damp/Dry	E320395
40W	347Vac 50/60 Hz	0.155 @ 347V	>0.9	<20%	NEMA SSL1-2010	87%	Damp/Dry	E320395
55W	120-277Vac 50/60 Hz	0.6A @ 120V 0.26A @ 277V	>0.9	<20%	NEMA SSL1-2010	89%	Damp/Dry	E320395

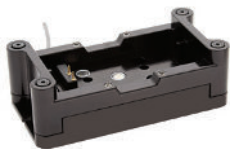
## Ordering Information

Item Number	NAED	Ordering Abbreviation	Total Output Power	Output Current Range	Default Current	Output Voltage Range (Voc)	Dimming Control	Dimming Range	LED Thermal Protection	Housing Type
120-277V										
*2743VY	57347	OTi25W/120-277/1A2/DIM-1	25W	150-1250mA (Programmable)	500mA	8-55V	0-10V	1-100%	Yes	F-Style
*274A1J	57348	OTi25W/120-277/1A2/DIM-1/J	25W	150-1250mA (Programmable)	500mA	8-55V	0-10V	1-100%	Yes	J-Style
*2743W0	57349	OTi25W/120-277/1A2/DIM-1 AUX	25W	150-1250mA (Programmable)	500mA	8-55V	0-10V	1-100%	Yes	F-Style
*274A1K	57350	OTi25W/120-277/1A2/DIM-1 J/AUX	25W	150-1250mA (Programmable)	500mA	8-55V	0-10V	1-100%	Yes	J-Style
*2743W1	57351	OTi40W/120-277/1A4/DIM-1	40W	400-1400mA (Programmable)	700mA	8-55V	0-10V	1-100%	Yes	F-Style
*274A1L	57352	OTi40W/120-277/1A4/DIM-1/J	40W	400-1400mA (Programmable)	700mA	8-55V	0-10V	1-100%	Yes	J-Style
*2743W2	57353	OTi40W/120-277/1A4/DIM-1 AUX	40W	400-1400mA (Programmable)	700mA	8-55V	0-10V	1-100%	Yes	F-Style
*274A1M	57354	OTi40W/120-277/1A4/DIM-1 J/AUX	40W	400-1400mA (Programmable)	700mA	8-55V	0-10V	1-100%	Yes	J-Style
*2743W3	57355	OTi55W/120-277/2A0/DIM-1	55W	700-2000 mA (Programmable)	1000mA	10-55V	0-10V	1-100%	Yes	F-Style
*274A1N	57356	OTi55W/120-277/2A0/DIM-1/J	55W	700-2000 mA (Programmable)	1000mA	10-55V	0-10V	1-100%	Yes	J-Style
*2743W4	57357	OTi55W/120-277/2A0/DIM-1 AUX	55W	700-2000 mA (Programmable)	1000mA	10-55V	0-10V	1-100%	Yes	F-Style
*274A1P	57358	OTi55W/120-277/2A0/DIM-1/J AUX	55W	700-2000 mA (Programmable)	1000mA	10-55V	0-10V	1-100%	Yes	J-Style
347V										
*2743XR	57994	OTi25W/347/1A2/DIM-1	25W	150-1250mA (Programmable)	500mA	8-55V	0-10V	1-100%	Yes	F-Style
*274A3P	57995	OTi25W/347/1A2/DIM-1/J	25W	150-1250mA (Programmable)	500mA	8-55V	0-10V	1-100%	Yes	J-Style
*2743XS	57996	OTi25W/347/1A2/DIM-1 AUX	25W	150-1250mA (Programmable)	500mA	8-55V	0-10V	1-100%	Yes	F-Style
*274A3R	57997	OTi25W/347/1A2/DIM-1 J/AUX	25W	150-1250mA (Programmable)	500mA	8-55V	0-10V	1-100%	Yes	J-Style
*2743XT	57998	OTi40W/347/1A4/DIM-1	40W	400-1400mA (Programmable)	700mA	8-55V	0-10V	1-100%	Yes	F-Style
*274A3S	57999	OTi40W/347/1A4/DIM-1/J	40W	400-1400mA (Programmable)	700mA	8-55V	0-10V	1-100%	Yes	J-Style
*2743XU	58008	OTi40W/347/1A4/DIM-1 AUX	40W	400-1400mA (Programmable)	700mA	8-55V	0-10V	1-100%	Yes	F-Style
*274A3T	58009	OTi40W/347/1A4/DIM-1 J/AUX	40W	400-1400mA (Programmable)	700mA	8-55V	0-10V	1-100%	Yes	J-Style

## Ordering Guide

OTi	55W	/	120-277	/	2A0	/	DIM-1	/	J	/	AUX
OPTOTRONIC® intelligent	Output Wattage		Input Voltage (120-277V) (347V)		Maximum output current 2000mA		1% Dimmable		J-Style Housing		AUX

## Accessories

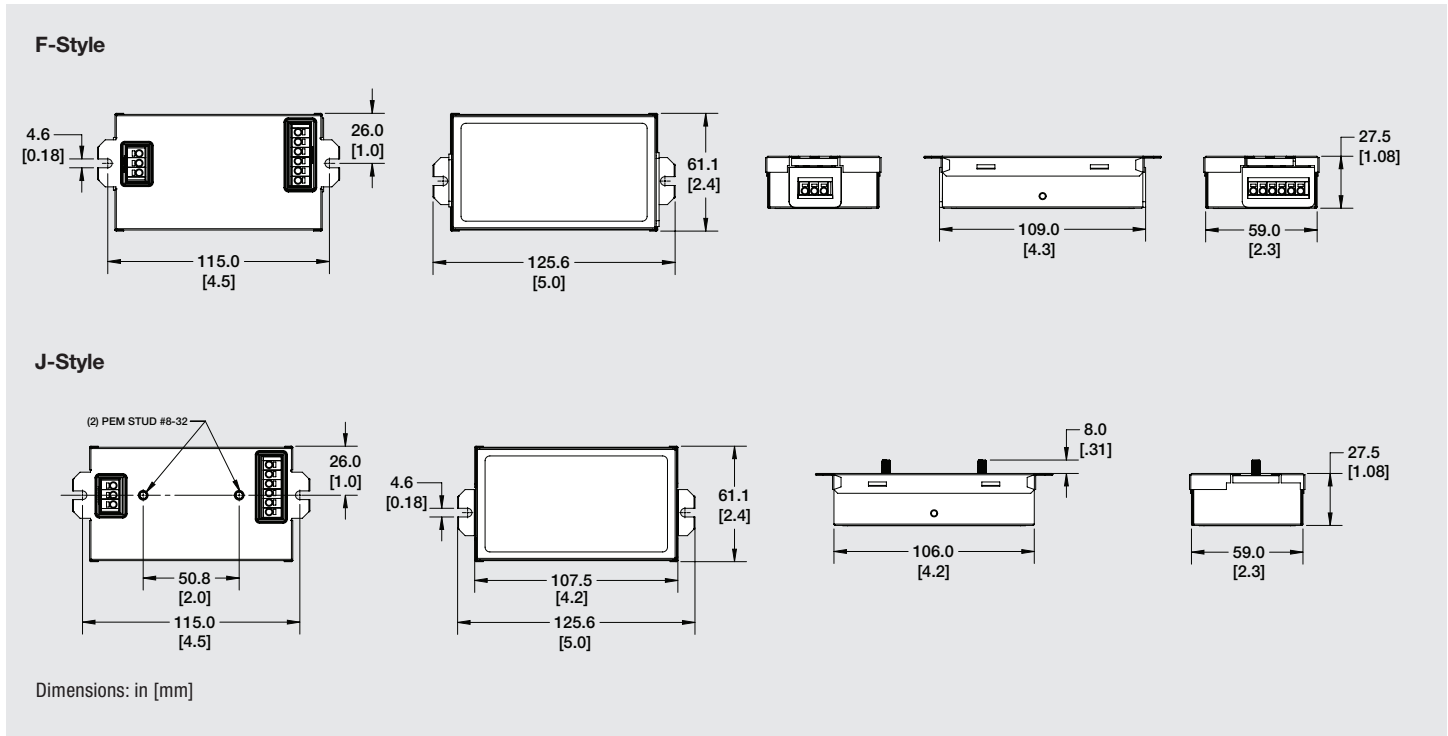


Item Number	NAED	Ordering Abbreviation	Description	Required Accessory
*274A17	51645	OTPROGRAMMER COMM BOX PRG	USB Programming Tool	Yes
*274A18	51646	OTPROGRAMMER LINEAR PRG NEST	Programming fixture	Optional

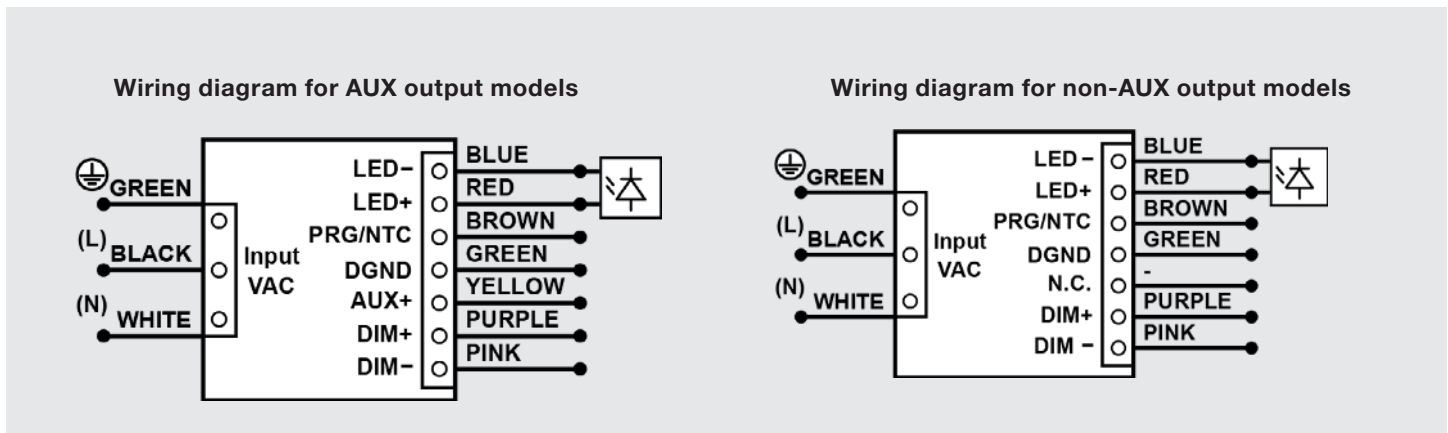
## Minimum and Maximum Ratings

Parameter	Values
Input Voltage Range	108-305V <sub>AC</sub>
Maximum Case Temperature (T <sub>c</sub> point)	90°C (185°F)
Maximum Case Temperature for 5-Year Life and Warranty	80°C (176°F) for 25W/40W models; 75°C (167°F) for 55W
Ambient Operating Temperature (reference)	OTI25W: -30°C to 50°C (-22°F to 122°F) OTI40W: -35°C to 50°C (-22°F to 122°F) OTI55W: -35°C to 45°C (-31°F to 113°F) OTI25W, 40W: (347V): -40°C to 50°C (-40°F to 122°F)
Storage Temperature	-35°C to 75°C (-31°F to 167°F)
Maximum Relative Humidity	85% (Non-condensing)

## Assembly Diagram

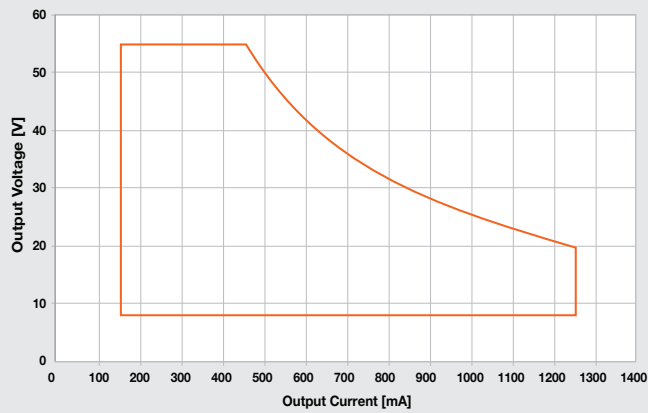


## Wiring Diagram

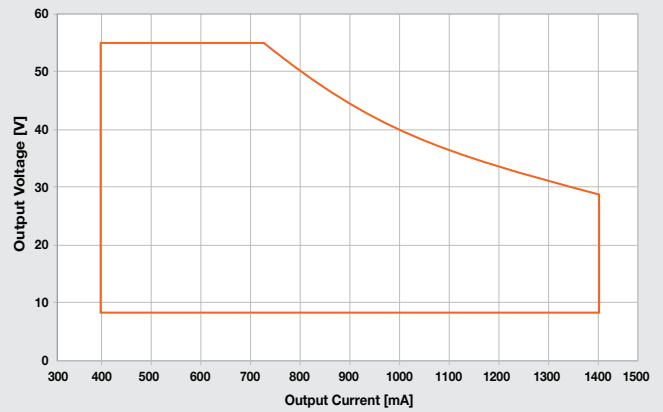


## Operating Range

### OTi25W



### OTi40W



### OTi55W



## Packaging

Quantity: 20 pieces per case

Weight: 0.5 lbs ea./10 lbs per case (approx.)

## 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.