



The OPTOTRONIC programmable dimmable family consists of highly efficient, constant current 75W and 95W LED high wattage compact drivers. They are custom programmable between the range of 700 to 2000mA for the 75W and 1000 to 2500mA for the 95W, with a 1mA resolution. The OPTOTRONIC programmer does not require the power supply to be powered up or connected to AC line voltage while programming. The power supplies are available in dimming to 1% with built-in 0-10V dimming enabling direct integration and operation with standard dimmers, sensors, as well as energy and light-management systems. In case of LED module thermal overload, the family's integrated LED thermal protection function allows the power supply to reduce the output current. This function is fully customizable by the customer. The family comes in a compact housing with dual entry connectors to simplify installation.

Dedicated auxiliary DC output helps integration of fixture integrated sensors thus eliminating the need of a secondary DC supply.

Application Information

Applications

- High wattage downlights
- Office
- Recessed troffer
- Retail
- Wall washing

Key Features & Benefits

- Universal Input Voltage – 120-277V_{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 programmable features include:
 - Constant lumen maintenance
 - End-of-life indication
 - LED thermal protection
 - Vaux (12V/20V/24V)
 - Soft start
 - Dim-to-Off
- Compact housing – 6.3"L x 3.07"W x 1.08"H
- Available with mounting feet (F-style) or PEM studs (J-style) to simplify installation

Product Offering

Max. Power	Housing Type	Connectors	Minimum Dimming	Output Current Range	Dedicated Aux ³ 12V/20V/24V
75W	F-style ¹	Dual Entry	1%	700–2000mA	Yes
75W	J-style ²	Bottom Feed	1%	700–2000mA	Yes
95W	F-style ¹	Dual Entry	1%	1000–2500mA	Yes
95W	J-style ²	Bottom Feed	1%	1000–2500mA	Yes

¹feet
²PEM stud
³1W 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 (V _{Ac})	Maximum Input Current (A)	Power Factor	THD	Line Transient	Efficiency	Environmental Rating	UL File #
75W	120-277V _{Ac} 50/60Hz	0.8 @ 120V 0.33 @ 277V	>0.9	<20%	ANSI C82.77-5-2015	88%	Damp/Dry	E320395
95W	120-277V _{Ac} 50/60Hz	0.99 @ 120V 0.44 @ 277V	>0.9	<20%	ANSI C82.77-5-2015	88%	Damp/Dry	E320395

Ordering Information

Item Number	NAED	Ordering Abbreviation	Total Output Power	Output Current Range	Default Current	Output Voltage Range (V _{oc})	Dimming Control	Dimming Range	LED Thermal Protection	Housing Type
*2743XV	58014	OTi75W/120-277/2A0 DIM-1	75W	700-2000mA (Programmable)	2000mA	20-54V (max. power limited)	0-10V	1-100%	Yes	F-Style
*274A3U	58015	OTi75W/120-277/2A0 DIM-1/J	75W	700-2000mA (Programmable)	2000mA	20-54V (max. power limited)	0-10V	1-100%	Yes	J-Style
*2743XW	58016	OTi75W/120-277/2A0 DIM-1 AUX	75W	700-2000mA (Programmable)	2000mA	20-54V (max. power limited)	0-10V	1-100%	Yes	F-Style
*274A3W	58017	OTi75W/120-277/2A0 DIM-1/J AUX	75W	700-2000mA (Programmable)	2000mA	20-54V (max. power limited)	0-10V	1-100%	Yes	J-Style
*2743XX	58018	OTi95W/120-277/2A5 DIM-1	95W	1000-2500mA (Programmable)	2300mA	20-54V (max. power limited)	0-10V	1-100%	Yes	F-Style
*274A3X	58019	OTi95W/120-277/2A5 DIM-1/J	95W	1000-2500mA (Programmable)	2300mA	20-54V (max. power limited)	0-10V	1-100%	Yes	J-Style
*2743XY	58020	OTi95W/120-277/2A5 DIM-1 AUX	95W	1000-2500mA (Programmable)	2300mA	20-54V (max. power limited)	0-10V	1-100%	Yes	F-Style
*274A3Y	58021	OTi95W/120-277/2A5 DIM-1/J AUX	95W	1000-2500mA (Programmable)	2300mA	20-54V (max. power limited)	0-10V	1-100%	Yes	J-Style

Ordering Guide

OTi	75W	/	120-277	/	2A0	/	DIM-1	/	J	/	AUX
OPTOTRONIC® intelligent	Output Wattage		Input Voltage (120-277V)		Maximum output current 2000mA		1% Dimmable		J-Style Housing		AUX

Accessories



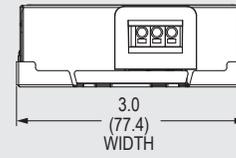
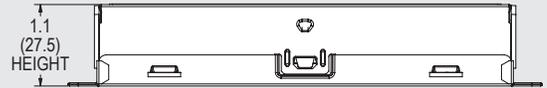
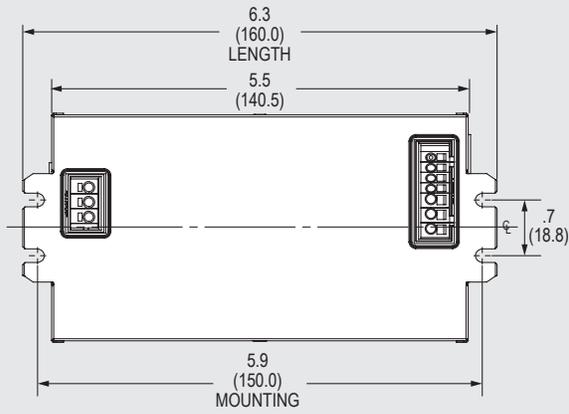
Item Number	NAED	Ordering Abbreviation	Description	Required Accessory
*274A17	51645	OT Programmer	USB Programming Tool	Yes
*2743V0	57493	OT Compact Handheld HI Power Tool	Programming fixture	Optional

Minimum and Maximum Ratings

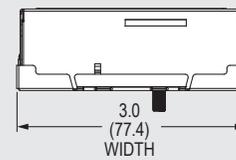
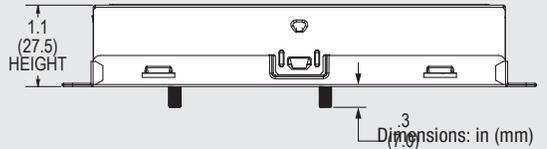
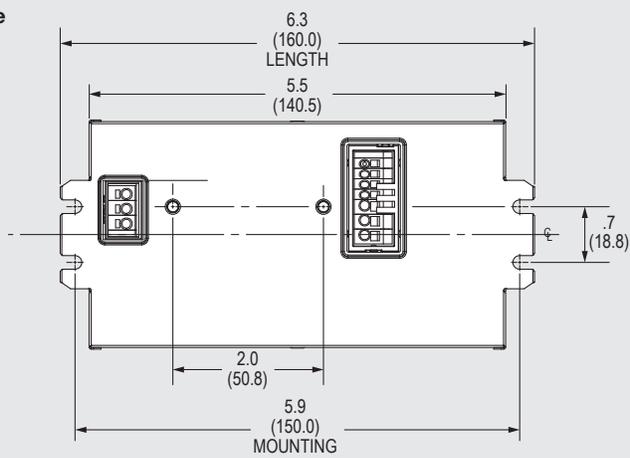
Parameter	Values
Input Voltage Range	108-305V _{Ac}
Maximum Case Temperature (T _c point)	85°C (185°F)
Maximum Case Temperature for 5-Year Life and Warranty	80°C (176°F) for 75W models; 85°C (185°F) for 95W models
Ambient Operating Temperature (reference)	OTi75W: -40°C to 50°C (-40°F to 122°F) OTi90W: -40°C to 45°C (-40°F to 113°F)
Storage Temperature	-35°C to 75°C (-31°F to 167°F)
Maximum Relative Humidity	85% (Non-condensing)

Assembly Diagram

F-Style

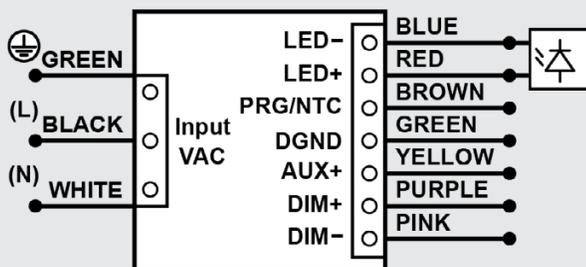


J-Style

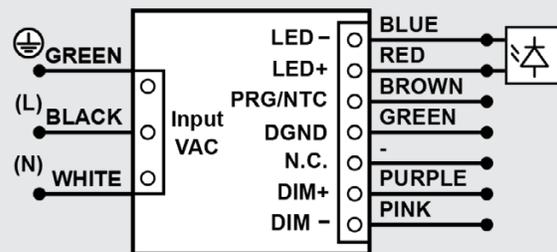


Wiring Diagram

Wiring diagram for AUX output models

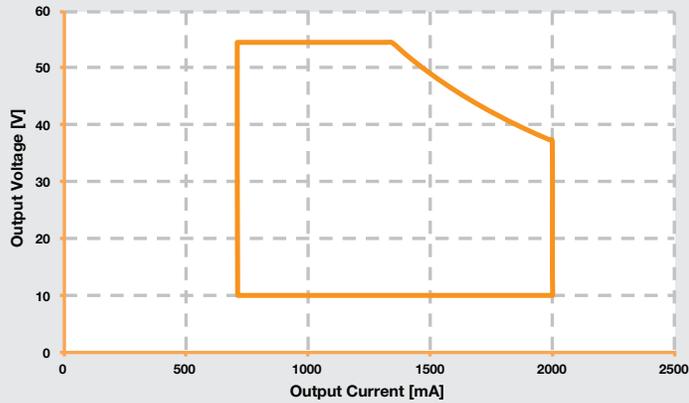


Wiring diagram for non-AUX output models

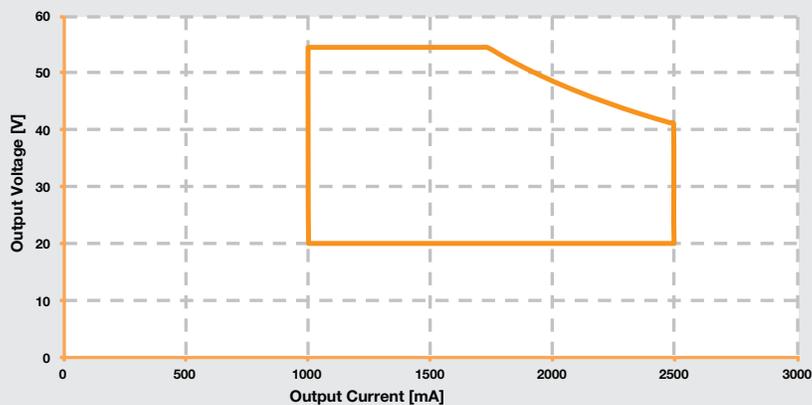


Operating Range

OTi75W



OTi95W



Packaging

Quantity: 20 pieces per case

Weight: 1.0 lb ea./20 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.