

OPTOTRONIC®

Current Select Drivers



The OPTOTRONIC Current Select family consists of highly efficient, linear, constant current LED power supplies. These drivers provide economic and flexible solutions for indoor lighting applications. Each driver can achieve three output current levels by shorting the designated current selection pins on the driver. The input voltage is a Universal 120–277V_{AC}, and there are multiple output power options to choose from. These power supplies are also available with or without a built-in 0-10V dimming interface.

Key Features & 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

Product Offering

Maximum Power	Minimum Dimming	Selectable Output Currents
55W	10%	800mA/1000mA/1200mA
55W	Non-Dimming	800mA/1000mA/1200mA
50W	10%	1200mA/1300mA/1400mA
50W	Non-Dimming	1200mA/1300mA/1400mA
35W	10%	350mA/625mA/750mA
35W	Non-Dimming	350mA/625mA/750mA

Application Information

- Indirect/direct
- Linear
- Recessed troffer

Specifications and Certifications



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 #
55W	120-277V _{AC} 50/60Hz	0.56 @ 120V 0.24 @ 277V	>0.9	<20%	ANSI C62.41 Category A 2.5KV	>85%	Dry & Damp	E320395
50W	120-277V _{AC} 50/60Hz	0.5 @ 120V 0.22 @ 277V	>0.9	<20%	ANSI C62.41 Category A 2.5KV	>85%	Dry & Damp	E320395
35W	120-277V _{AC} 50/60Hz	0.35 @ 120V 0.15A @ 277V	>0.9	<20%	ANSI C62.41 Category A 2.5KV	>85%	Dry & Damp	E320395

Ordering Information

Item Number	Ordering Abbreviation	Total Output Power	Default Selectable Currents	Output Voltage Range (V _{DC})	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

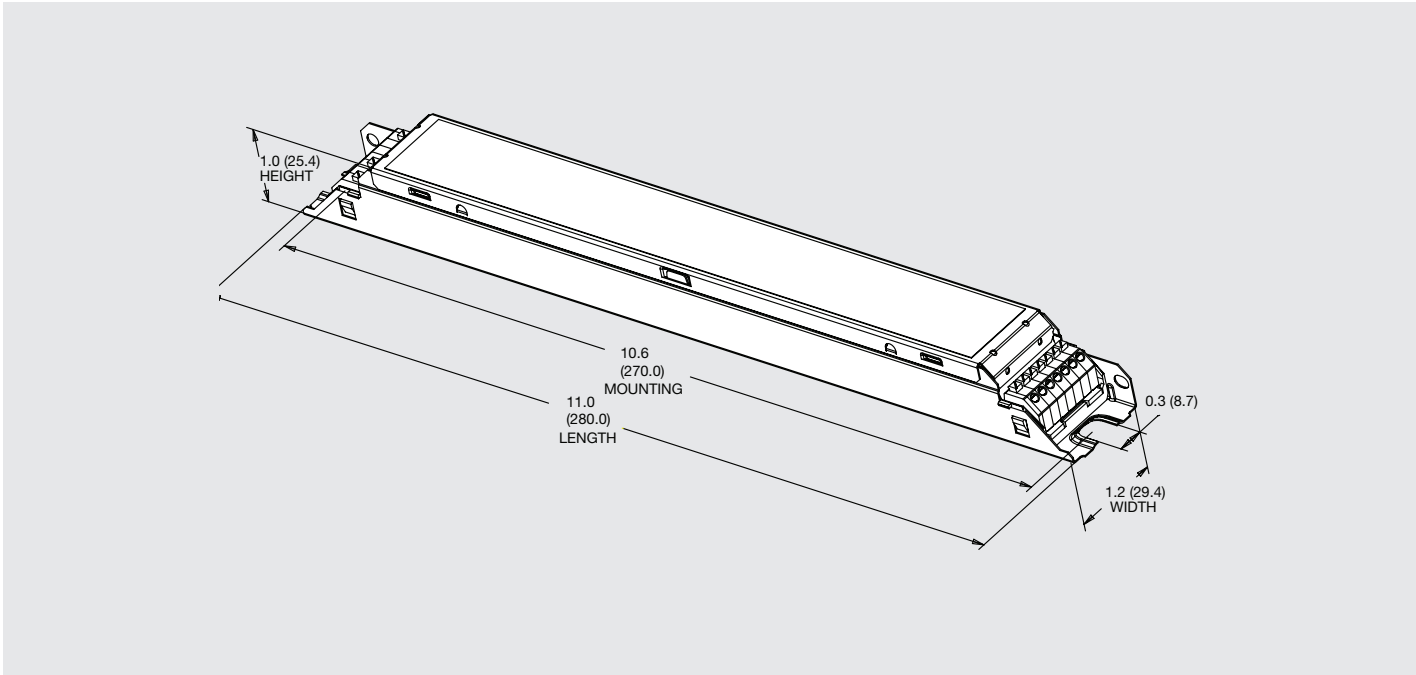
Ordering Guide

OT	55W	/	UNV	/	1A2	CS	DIM	L
OPTOTRONIC®	Output Wattage 55W 50W 35W		Input Voltage 120-277		Output Current (Max) 1A2 = 1200mA 1A4 = 1400mA 0A75 = 750mA	CS = Current Select	0-10V Dimming DIM = 10% Dimming	L = Linear

Minimum and Maximum Ratings

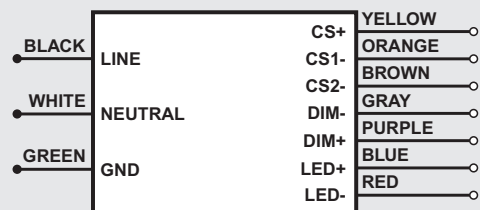
Parameter	Values
Input Voltage Range	108 – 305V _{AC} (UNV)
Maximum Case Temperature (T _c point)	80°C for 55W, 75°C for 50W, 70°C for 35W
Maximum Case Temperature for 5 year life and warranty	80°C for 55W, 75°C for 50W, 70°C for 35W
Ambient Operating Temperature (reference)	-20°C to 50°C (-4°F to 122°F)
Maximum Storage Temperature	50°C (122°F)
Maximum Relative Humidity	85% (Non-condensing)

Assembly Diagram

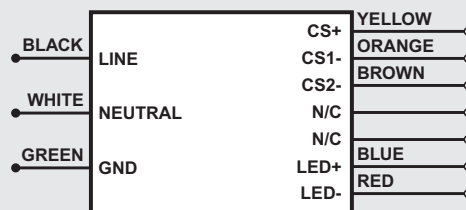


Wiring Diagram

Wiring diagram w/ DIM



Wiring diagram w/out DIM

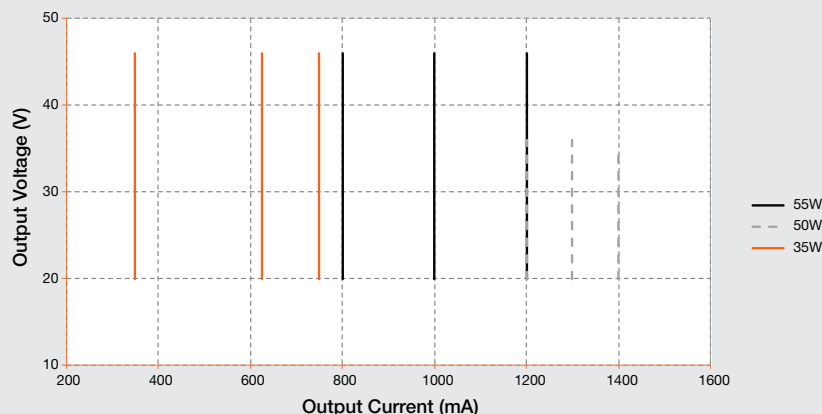


Output Current Selection

To select the desired output current value, short the output pins corresponding to the table below:

	No Short-Circuit	Short CS+ and CS1-	Short CS+ and CS2-
OT35W	350mA	750mA	625mA
OT50W	1200mA	1400mA	1300mA
OT55W	800mA	1200mA	1000mA

Operating Range



Packaging

Quantity: 30 pieces per case

Weight: 0.507 lbs ea./15.212 lbs per case (approx.)

Warranty

OPTOTRONIC® Products are covered by our LED Module, OPTOTRONIC Power Supply or Control Warranty. For additional warranty information or to download the warranty registration form visit www.osram.us/warranty.

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