



Electrical Specifications

Input

Input Voltage (VAC)	120V-277V (+/- 10%)	
Frequency Range (Hz)	50 – 60 Hz (+/- 10%)	
	120V	277V
Input Current (A)	0.50	0.22
THD @ Full load	<20%	<20%
Power Factor @ Full load	>0.9	>0.9
Efficiency @ Full load	≥88%	≥89%
Inrush Current (Apk, T@10% of Apk) ²	7.4A, 120μs	21.2A, 150μs

2 - Complies with NEMA 410 inrush current

General Information

Item Number	*2743WN (57439) *2743WP (57440)
Type	Constant Current, Class 2
Output Power	50W (Max.)

Environmental Specifications

Ambient Operating Temperature	-20°C to 50°C
Case Temperature (Tc)	75°C (50kHrs) ¹
Max. Storage Temp.	70°C
Max. Relative Humidity (%)	85% non-condensing
Transient Protection	ANSI C62.41 Cat. A 2.5kV Ring Wave
EFT	IEC 61000-4-4 (1kV)
UL Rating	Dry & Damp
UL File number	E333135
EMI Compliance	FCC Part 15 Class A
Sound Rating	Class A

1 - Warranty applicable only at 75°C

Output

Output Current (mA)	1200mA/1300mA/1400mA
Output Voltage (VDC)	20-36VDC
Output Ripple Current	<30% @ full load
Max. Output Power (W)	50W
LED Power-Up Time	<1sec
Load Regulation	<5%
Line Regulation	<10%
Over Voltage (4V over limit)	Yes, non-latching
Output Short-Circuit Protection	Yes, non-latching

Dimming

Dimming Control	0 – 10V
Dimming Range	10-100%
Dimming Type	Current Reduction
Dimming Input Isolation	2.5kV
Source Current	2mA max

CAUTION: Two power supplies if dimming is connected to non-class 2 circuits.



Ordering Guide

Item Number	Original Item Number	Ordering Description
*2743WN	57439	OT 50W/UNV/1A4 CS L
*2743WP	57440	OT 50W/UNV/1A4 CS DIM L

Wiring Diagram



Note: Maximum suggested remote mounting distance is 8 feet.

Note: Use solid copper wire only (16-22 AWG).

Note: For Connections Use Wire Rated for at Least 90°C (194°F) or equivalent.

Note: Strip as below for all wires.



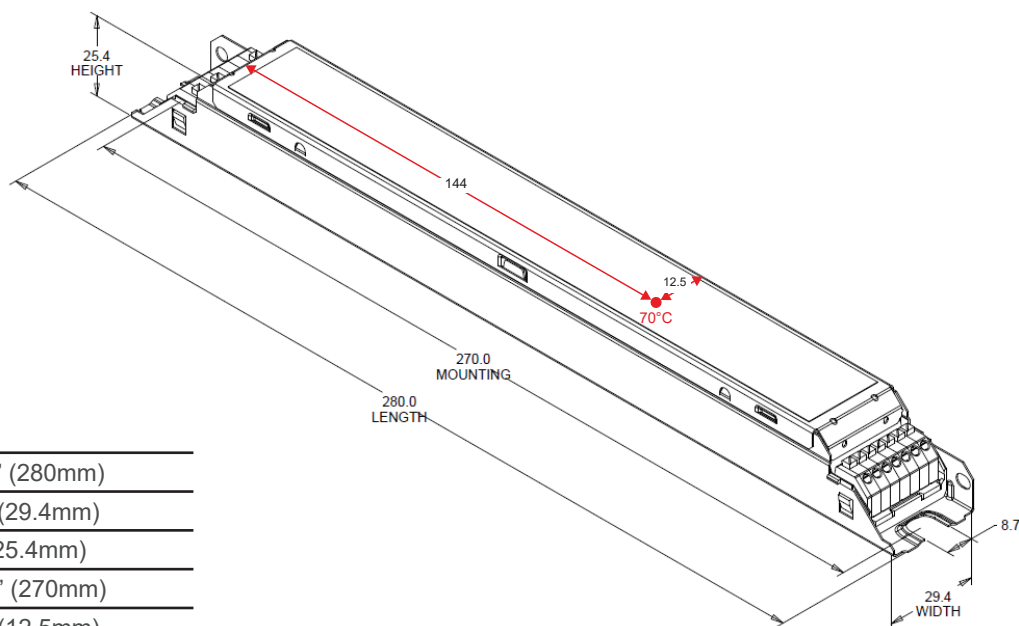
Selecting Currents

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-
OT50W	1200mA	1400mA	1300mA

Note: The jumper wire should be completely insulated and conductive parts must not be accessible when installed on the driver's output connector.

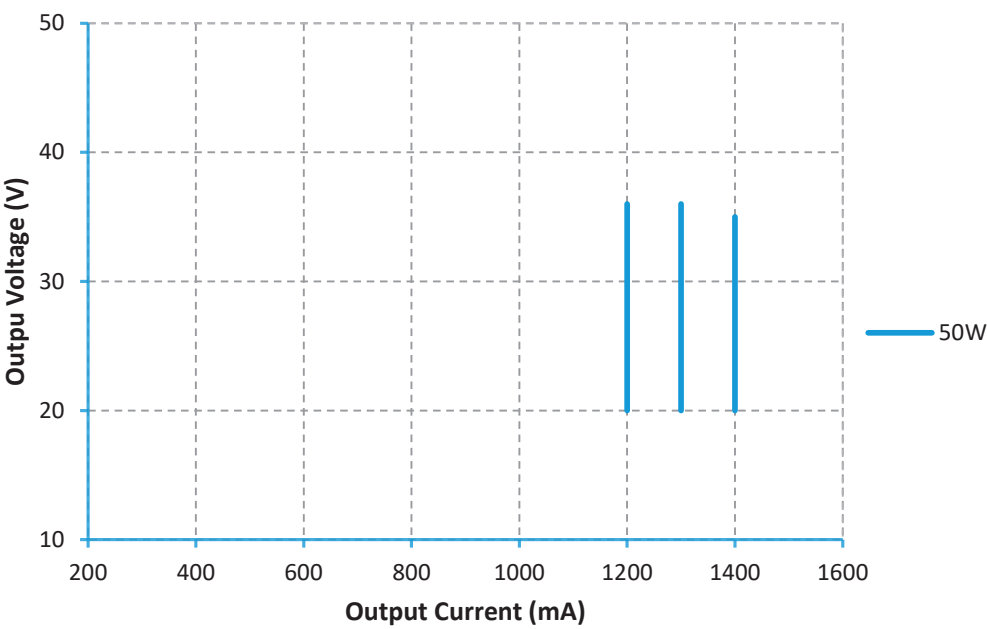
Mechanical Diagram



Mechanical Specification

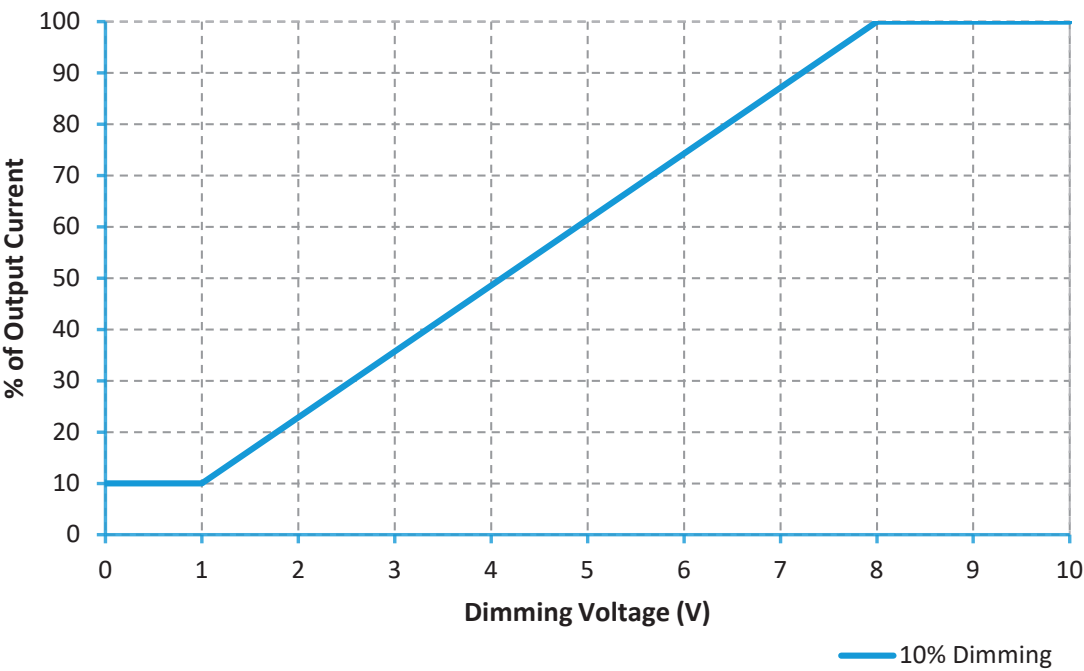
Length	11.02" (280mm)
Width	1.15" (29.4mm)
Height	1.0" (25.4mm)
Mounting Length	10.63" (270mm)
Tc Point from side	0.50" (12.5mm)
Tc Point from end	5.7" (144mm)

Operating Range

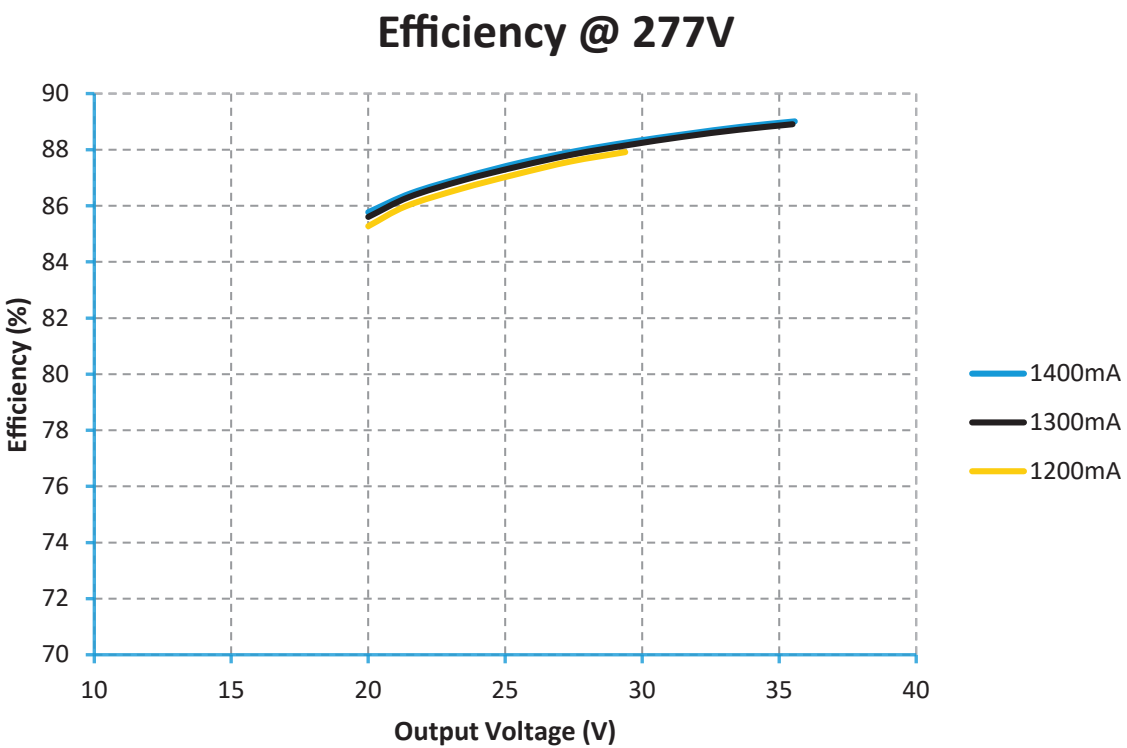
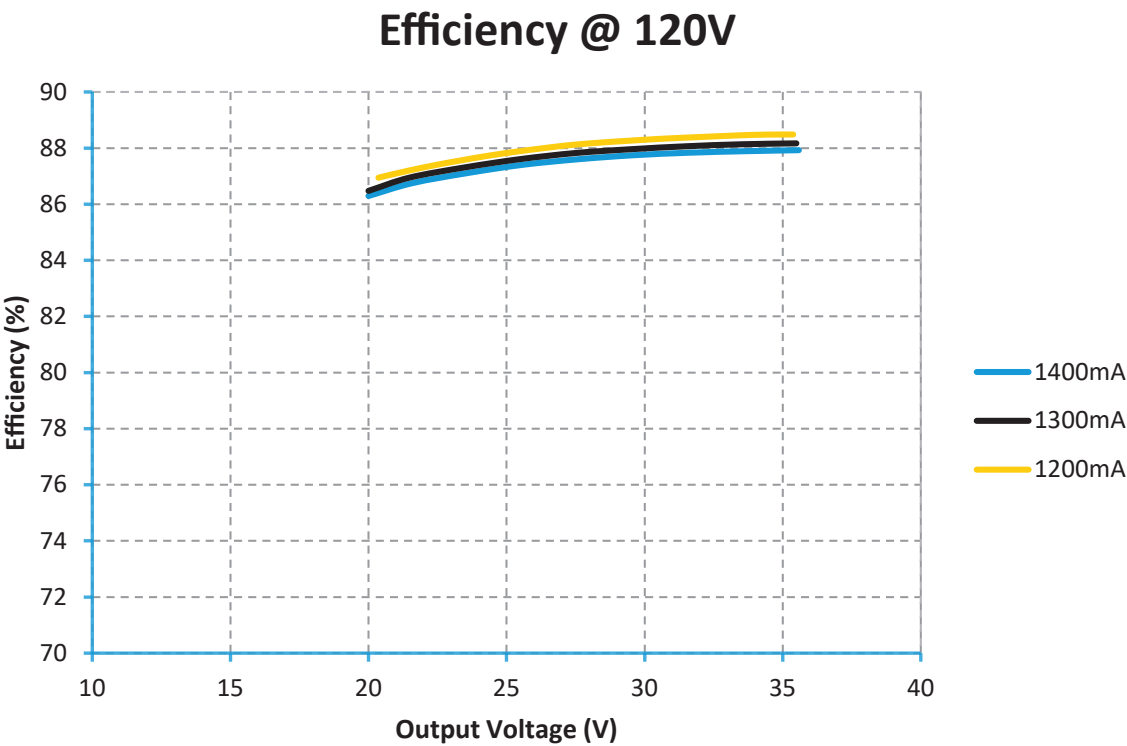


Note: Meeting DLC requirements requires minimum 50% loading.

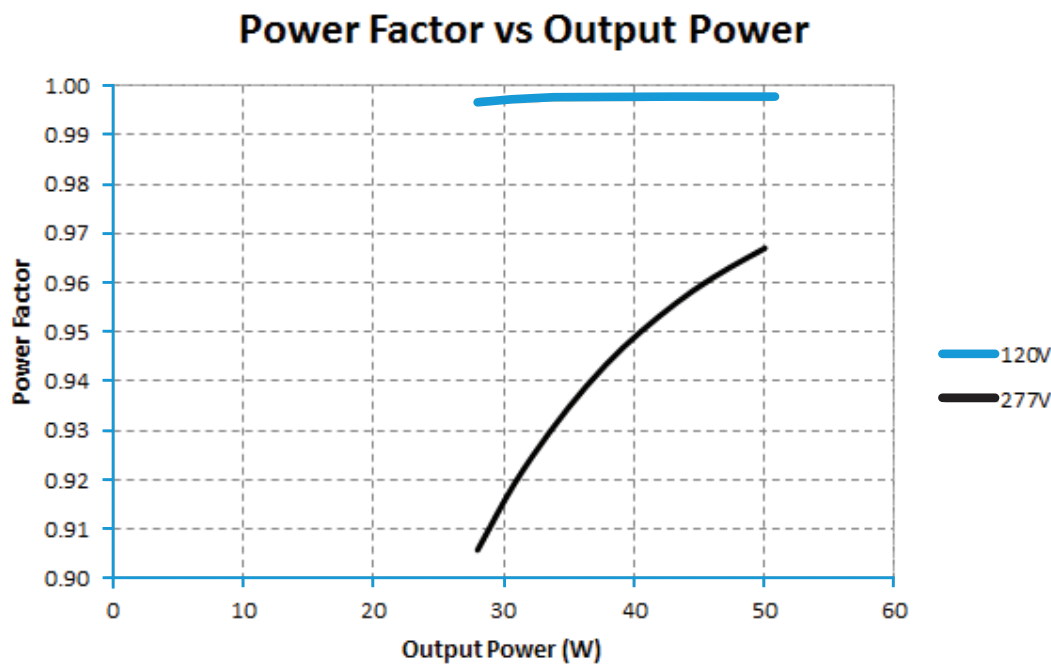
Dimming Curve



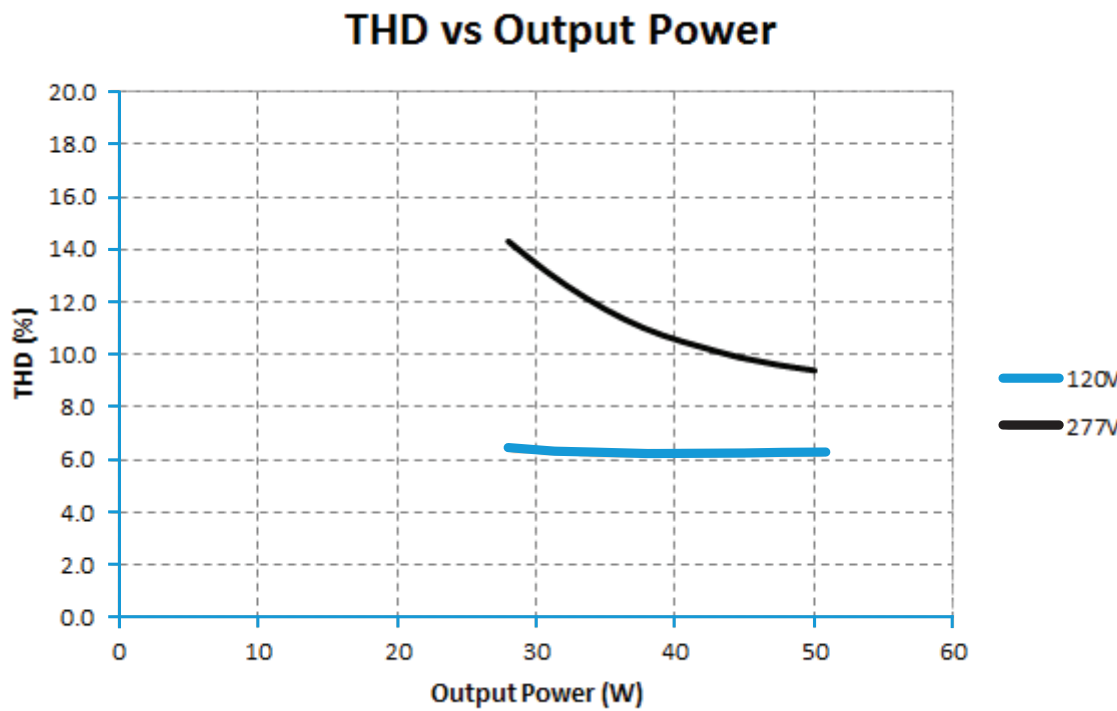
Efficiency vs. Output Voltage



Power Factor vs Load



THD vs Load



Warranty

OPTOTRONIC® by eldoLED Products are covered by a 5-year limited warranty.
Complete warranty terms can be found at: 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.

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