

OPTOTRONIC Current Select Drivers

57440 / OT 50W/UNV/1A4 CS DIM L

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 120–277 V_{ac}, and there are multiple output power options to choose from. These power supplies are also available with or without a built-in 0-10 V dimming interface.



Product family features

- Input voltage: - Universal 120-277 V_{AC} - UL Class 2 output - UL Class P Listed

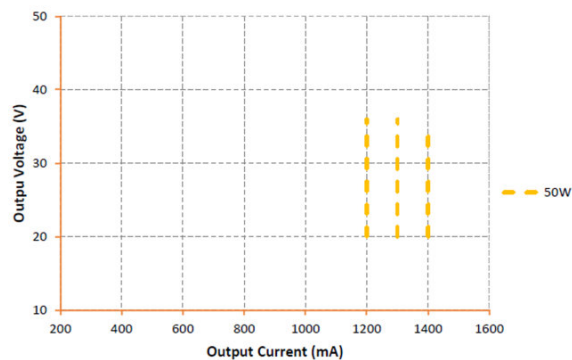
Technical data

General product information

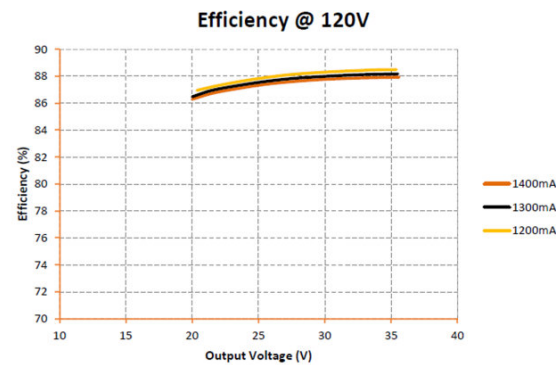
Product Name	OT50WUNV1A4CSDIML 30/CS 1/SKU
Ordering Abbreviation	OT 50W/UNV/1A4 CS DIM L
Brand Name	OSRAM
General Description	Dimmable 50W Linear driver with external current set
Type	Constant Current, Class 2
Product Number	57440

Electrical data

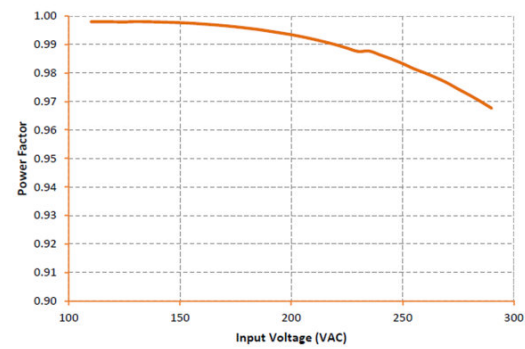
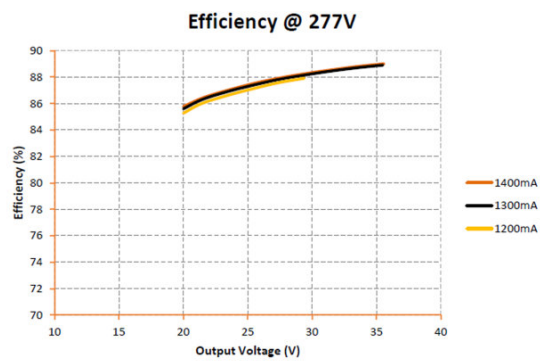
Nominal Total Max Wattage	50 W
Nominal Voltage	120-277 V



OT50 Current Select Driver Operating Range

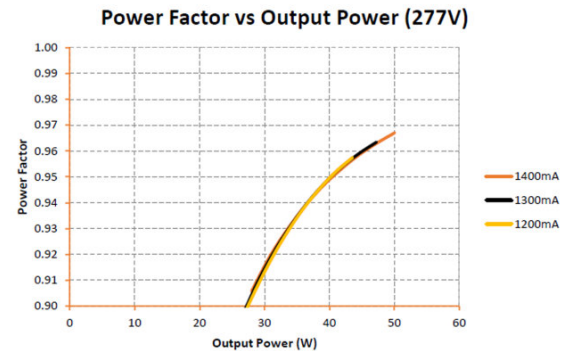
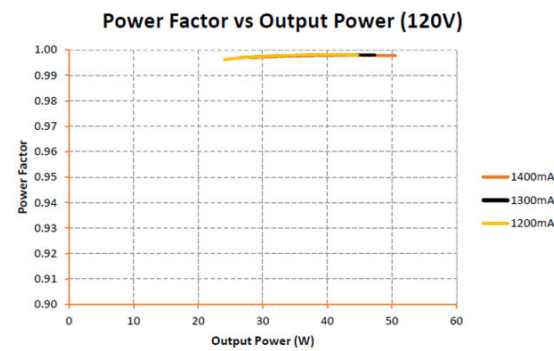


OT50 Current Select Driver Efficiency 120V



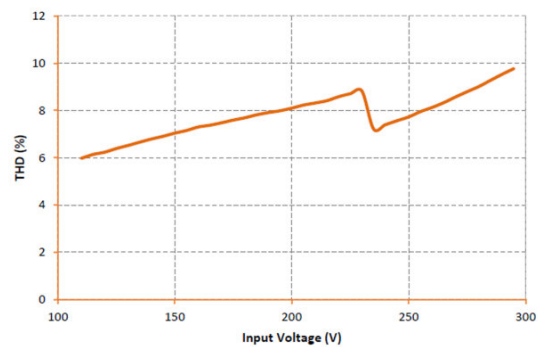
OT50 Current Select Driver Efficiency 277V

OT50 Current Select Driver PFvsInput

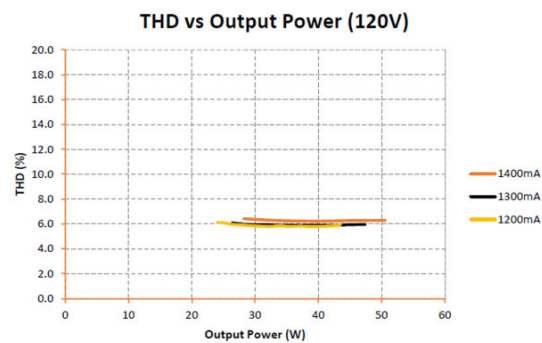


OT50 Current Select Driver PFvsOutput 120V

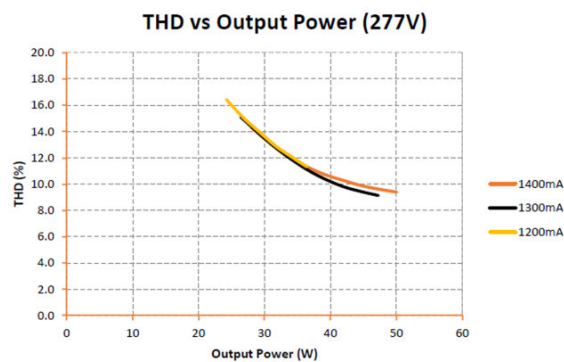
OT50 Current Select Driver PFvsOutput 277V



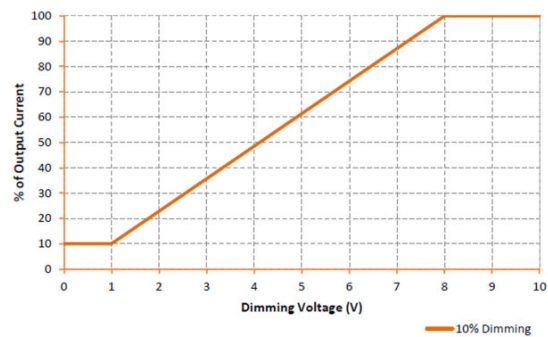
OT50 Current Select Driver THDvsInput



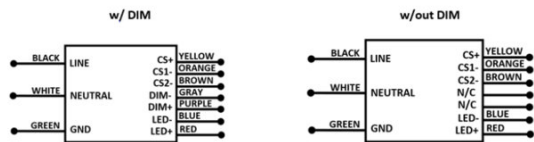
OT50 Current Select Driver THDvsOutput 120V



OT50 Current Select Driver THDvsOutput 277V



OT50 Current Select Driver Dimming Curve



OT50 Current Select Driver Wiring Diagram

Electrical specifications - Dimming

Dimming Control	0 – 10V ¹⁾
Dimming Input Isolation [CRM]	2.5kV
Dimming Range	10-100%
Dimming Type	Current Reduction
Source/Sink Current	2mA

¹⁾ Dimming input is isolated, Class 2 or non-Class 2 wiring allowed. CAUTION: More than one power supply present

Electrical specifications - Input

Efficiency @ Full load 120V	≥85%
Efficiency @ Full load 277V	≥85%
Frequency Range (Hz)	50 – 60 Hz (+/- 10%)
Input Current (A) 120V	0.5
Input Current (A) 277V	0.22
Input Voltage (VAC)	120V-277V (+/- 10%)
Inrush Current (A _{pk} , T@50% of A _{pk}) 120V	7.4A, 120μs ¹⁾
Inrush Current (A _{pk} , T@50% of A _{pk}) 277V	21.2A, 150us ¹⁾
Power Factor @ Full load 120V	>0.9
Power Factor @ Full load 277V	>0.9
THD @ Full load 120V	<20%
THD @ Full load 277V	<20%

Product datasheet

¹⁾ Complies with NEMA 410 inrush current.

Electrical specifications - Output

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

Environmental specifications

Ambient Operating Temperature	-20°C to 50°C
Case Temperature (T _c)	75°C (50kHrs) ¹⁾
EFT	IEC 61000-4-4 (1kV)
EMI Compliance	FCC Part 15 Class A
Max. Relative Humidity (%)	85% non-condensing
Max. Storage Temp.	70°C
Sound Rating	Class A
Transient Protection	ANSI C62.41 Cat. A 2.5kV Ring Wave
UL Environmental Rating	Dry & Damp
UL File number	E320395

¹⁾ Warranty applicable only at 70°C

Packaging Information

Item number	EAN/UPC	Packaging	Quantity	Outside dimensions l x w x h	Gross weight
57440	4052899530577	Unpacked (SKU)	1		
57440	4052899530584	Shipping box (Case)	30	11.4 in x 7.7 in x 5.9 in	15.4 lb

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

Disclaimer

For information on specific product warranties, visit www.osram.us/warranty. Specifications are subject to change without notice.

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