



Electrical Specifications

Input

Input Voltage (VAC)	120V-277V (+/- 10%)	
Frequency Range (Hz)	50 – 60 Hz (+/- 10%)	
	120V	277V
Input Current (A)	0.56	0.24
THD @ Full load	<20%	<20%
Power Factor @ Full load	>0.9	>0.9
Efficiency @ Full load	≥89%	≥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	*281TH7 *281THC *280NR7 *280NR8 *282UYV *282V02 *282V06
Type	Constant Current, Class 2
Output Power	55W (Max.)

Environmental Specifications

Ambient Operating Temperature	-20°C to 50°C
Case Temperature (Tc)	80°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 80°C

Output

Output Current (mA)	825/800/850/1000/1035/1150/1200 (fixed)
Output Voltage (VDC)	20-50VDC
Output Ripple Current	<30% @ full load
Max. Output Power (W)	55W
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.

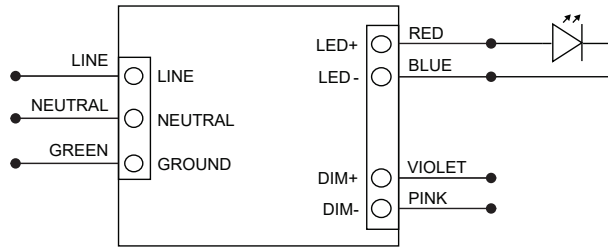
Ordering Guide

Item Number	Ordering Description
*282UYV	OT 55W/UNV/1A2 DIM L 825
*281TH7	OT 55W/UNV/1A2 DIM L 800
*281THC	OT 55W/UNV/1A2 DIM L 850
*282V02	OT 55W/UNV/1A2 DIM L 1000
*280NR7	OT 55W/UNV/1A2 DIM L 1035
*280NR8	OT 55W/UNV/1A2 DIM L 1150
*282V06	OT 55W/UNV/1A2 DIM L 1200



OPTOTRONIC® OT 55W Fixed Current Select - Technical Specifications

Wiring Diagram

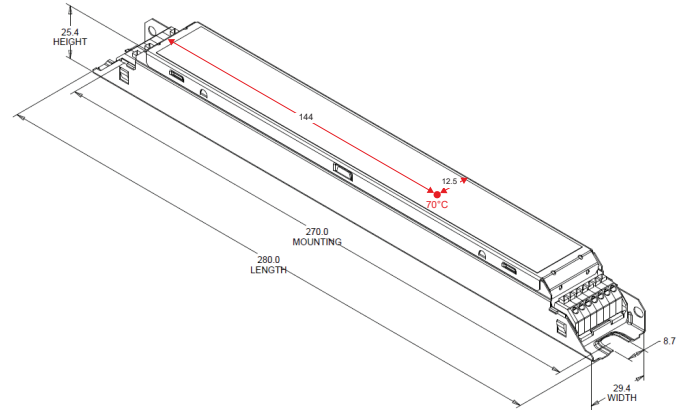


Note:

Maximum suggested remote mounting distance is 8 feet.
 Use solid copper wire only (16-22 AWG).
 For connections use wire rated for at least 90°C (194F).
 Strip wire as below.



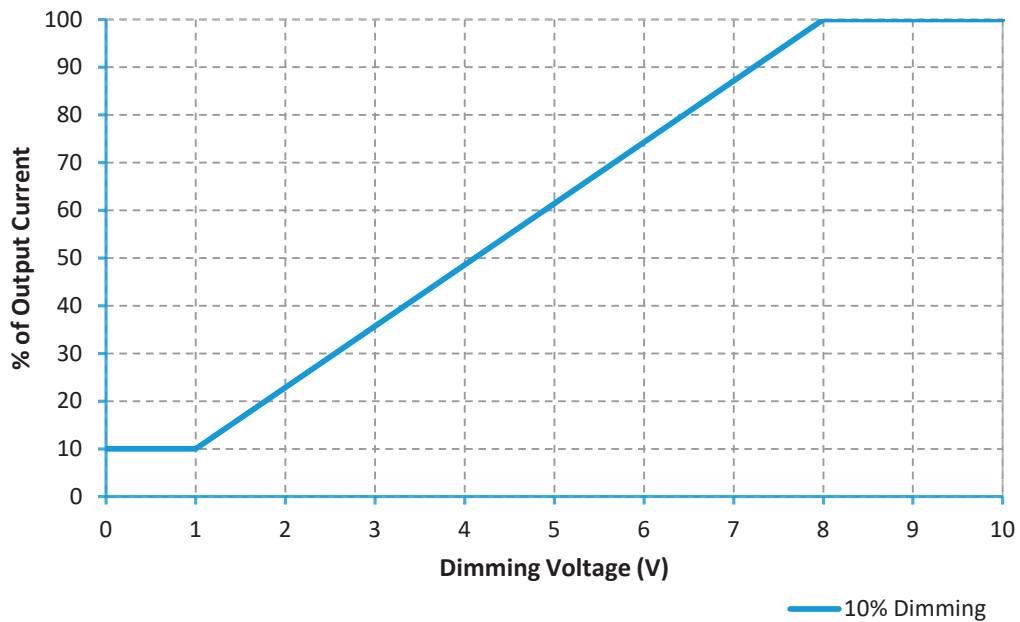
Mechanical Diagram



Mechanical Specification

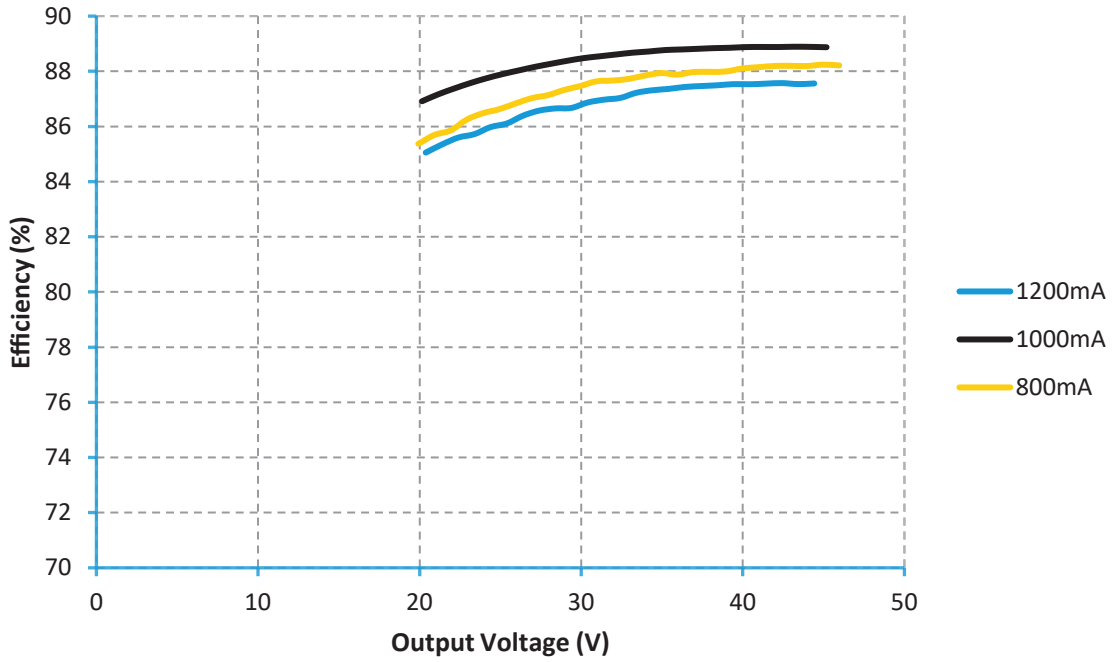
Length	11.02" (280mm)
Width	1.15" (29.4mm)
Height	1.0" (25.4mm)
Mounting Length	10.63" (270mm)
Tc Point from side	0.50" (12.5mm)
Tc Point from end	5.7" (144mm)

Dimming Curve

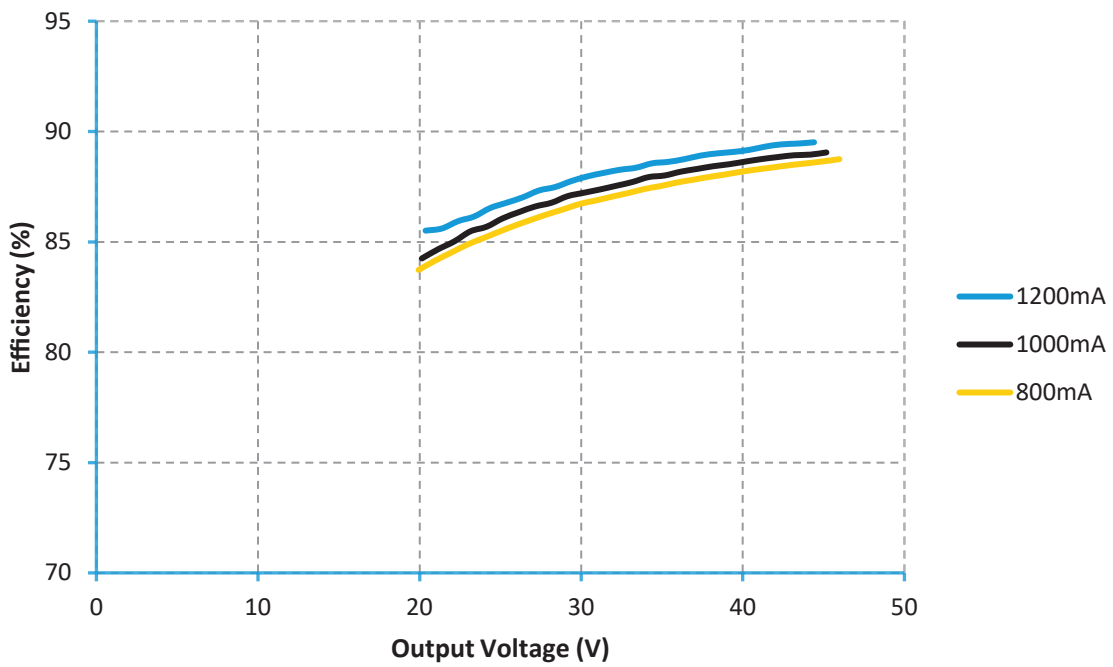


Efficiency vs. Output Voltage

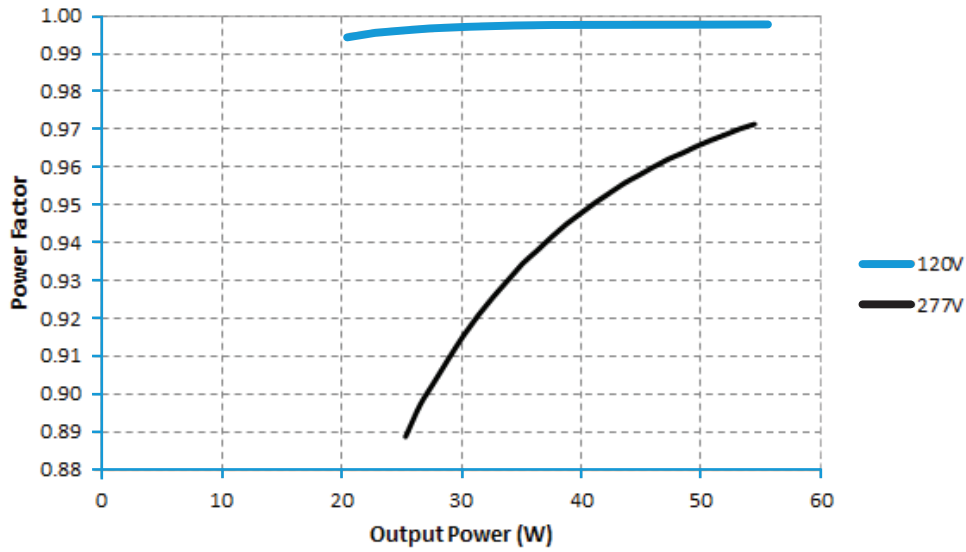
Efficiency @ 120V



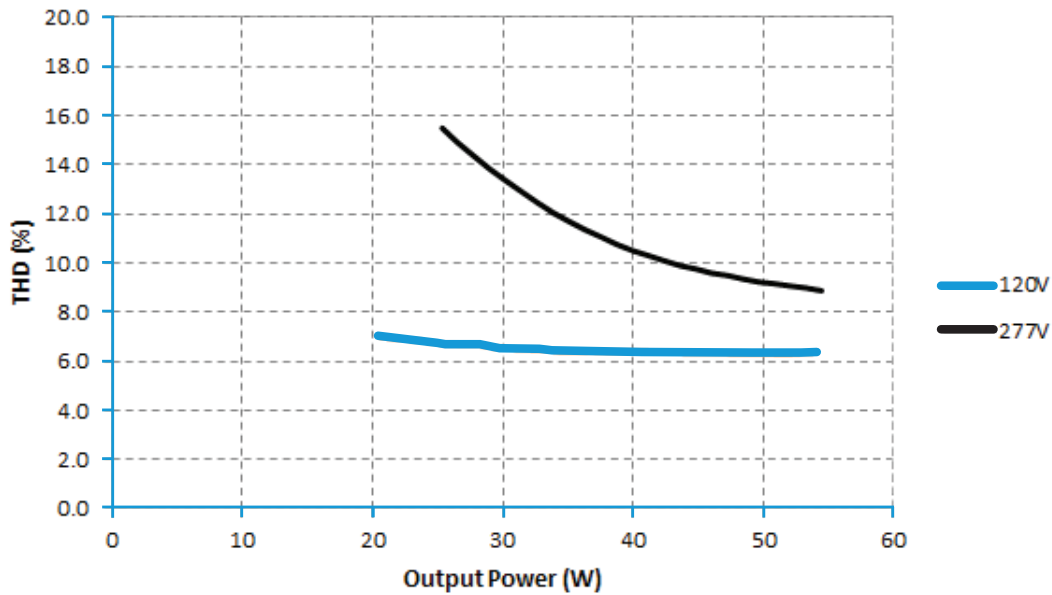
Efficiency @ 277V



Power Factor vs Output Power



THD vs Output Power



Warranty

OPTOTRONIC® 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.