

OPTOTRONIC® Power Supply OT100W/4100C/UNV



ELECTRICAL SPECIFICATIONS

Input		
Input Voltage (VAC)	120V- 277V (±10%)	
Frequency Range (Hz)	50-60Hz (±10%)	
	120V	277V
Input Current (A)	1.2	0.6
THD @ Full load	<10%	<20%
Power Factor	>0.9	>0.9
Efficiency @ Full load	>87%	>88%
Inrush Current (A _{pk})	80, 0.3ms	185, 0.39ms
Stand-by Power (W)	<1W	
Output		
Mode	Voltage (VDC)	Current (A)
Constant current	15-24	4.15
Constant voltage	24	0.1-4.15
Power (W)	100W (max)	
Line Regulation	<5%	
Load Regulation	<5%	
Output Current Ripple	<10% @ 4.1A	
LED Power-up time	< 1 sec	
Over Power protection	Yes, Fold back	
Output Short circuit protection	Yes, non-latching	
Over temperature protection	Yes, Fold back	

GENERAL INFORMATION

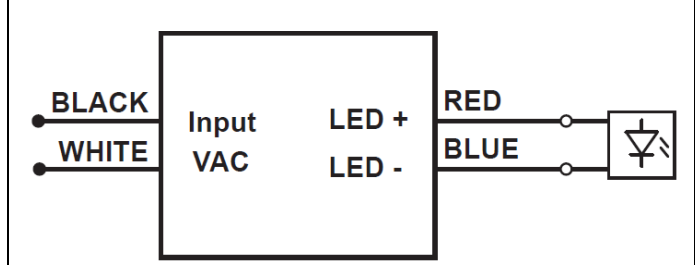
Item number	51628
Input Voltage	120-277V AC
Output type	Constant Voltage (or) Constant Current
Output Power	100W, Class 2

ENVIRONMENTAL SPECIFICATIONS

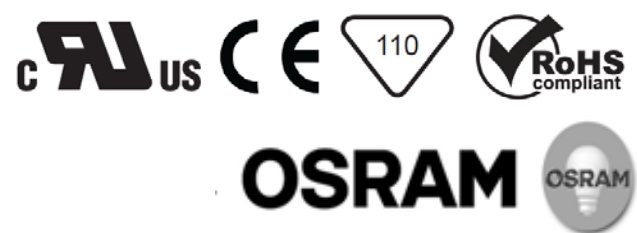
Ambient Operating temperature	-40°C to 55°C
Case Temp (Tc)	75°C* 90°C** (Max)
Transient protection	ANSI C62.41 Cat. A - 4KV
Safety	Class 2 (UL8750) IEC61347-1 IEC61347-2-13
UL environmental rating	Dry & Damp
UL File number	E320395
IP Rating	IP66
EMI Compliance	FCC 47 Part 15 Class B IEC55015

* Warranty applicable ** Warranty not applicable

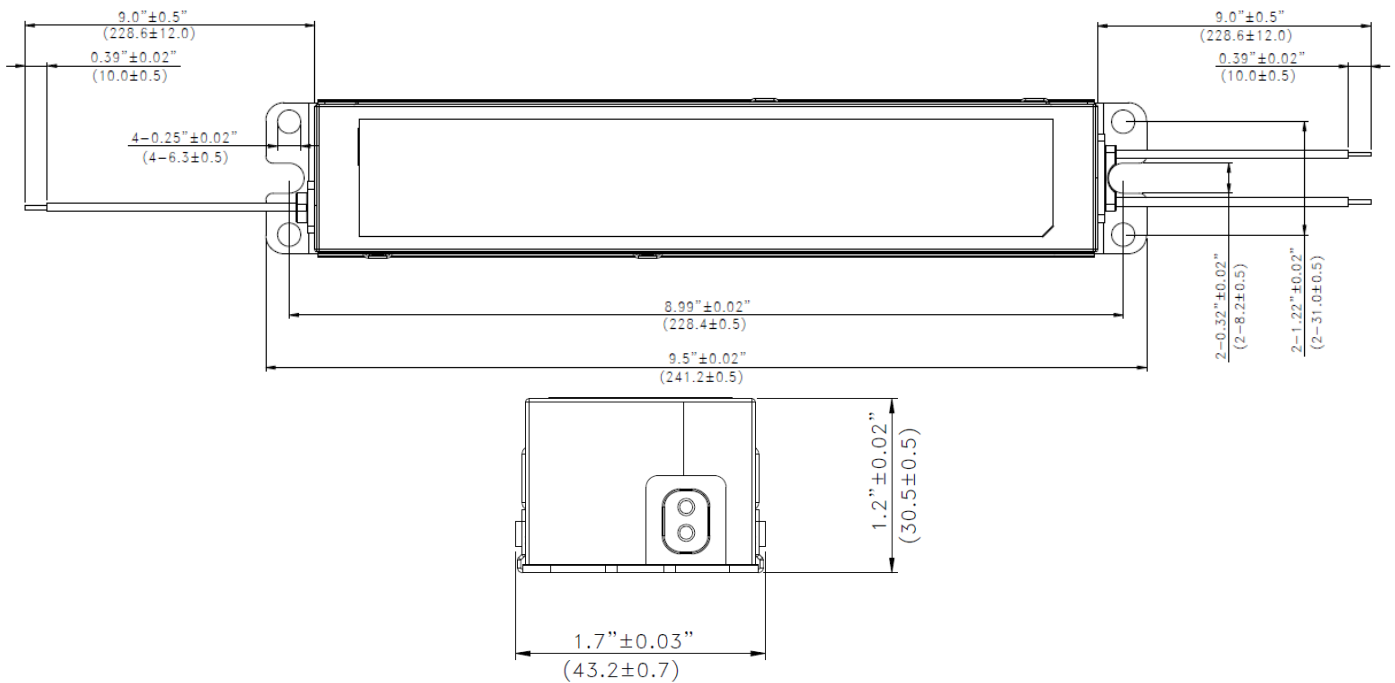
WIRING DIAGRAM



Note: Mounting distance for 18 AWG wire is 32 feet. For additional information on further distances and EMI compliance reference application note LED126. Case must be grounded.



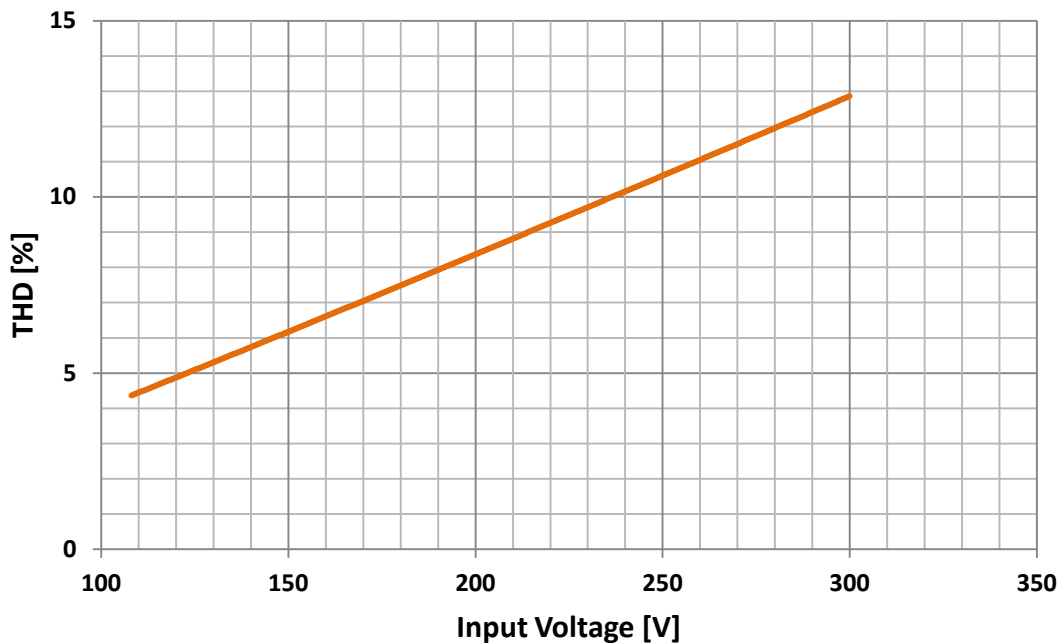
MECHANICAL DIAGRAM



MECHANICAL SPECIFICATIONS

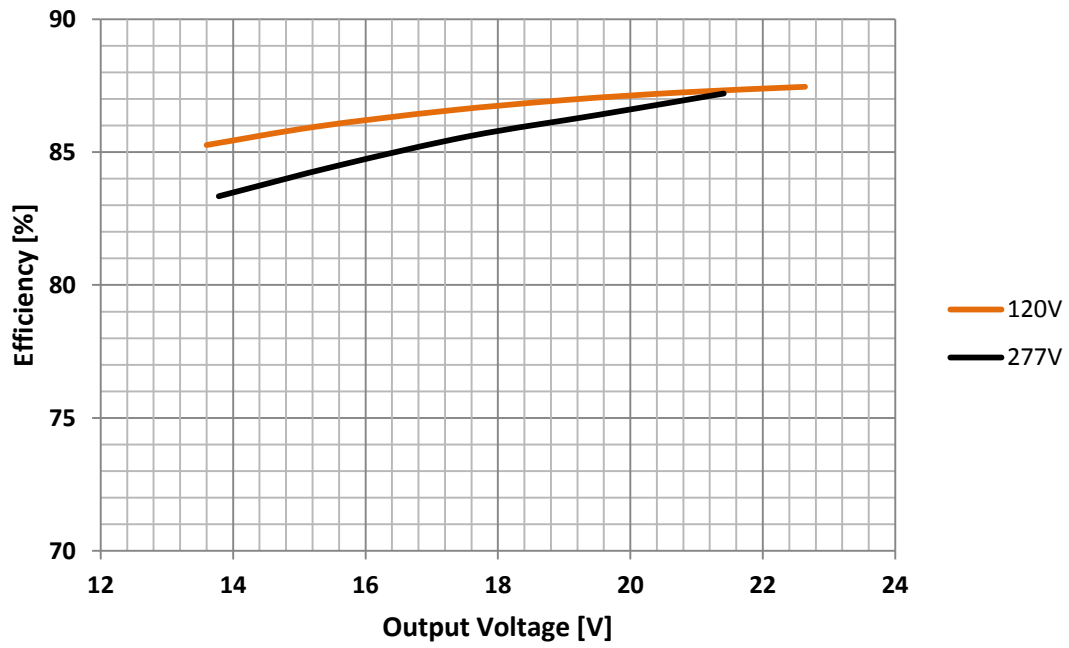
Length	9.5" (241.3mm)	Width	1.70" (43.1mm)
Mounting Length	8.9" (226.0mm)	Height	1.18" (30.0mm)

THD Vs INPUT VOLTAGE (FULL LOAD)

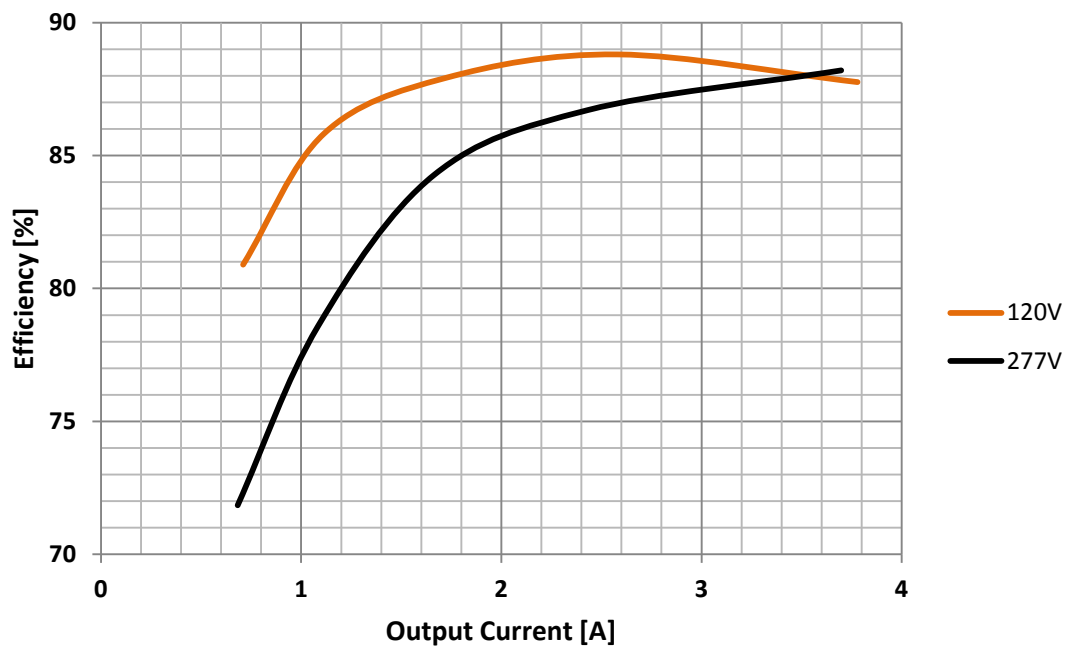


EFFICIENCY VS OUTPUT VOLTAGE/CURRENT

CONSTANT CURRENT MODE

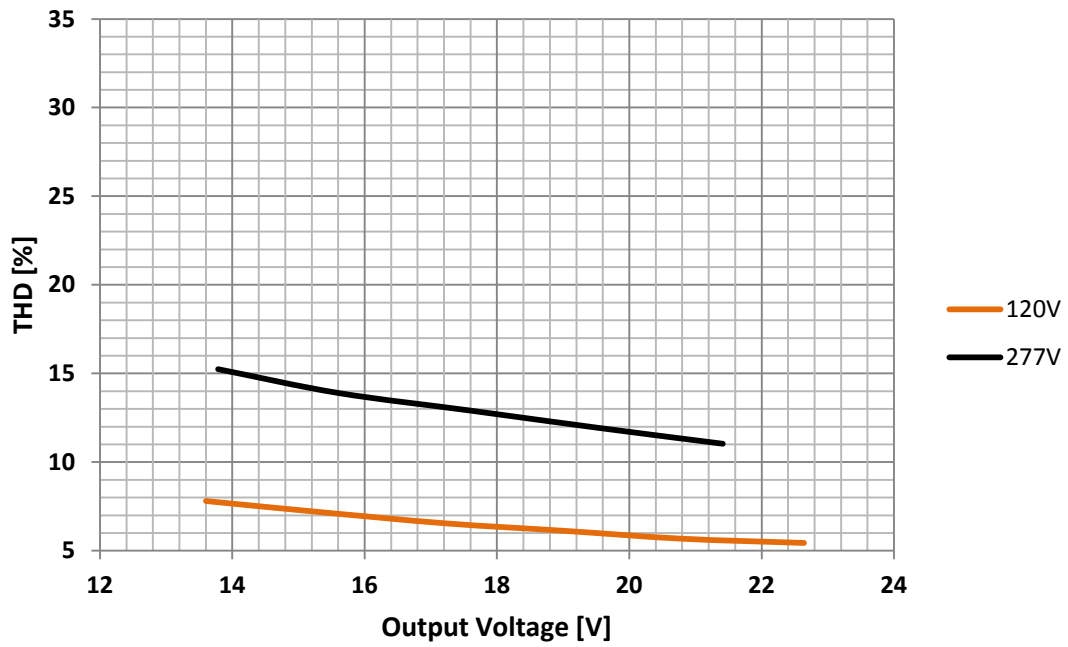


CONSTANT VOLTAGE MODE

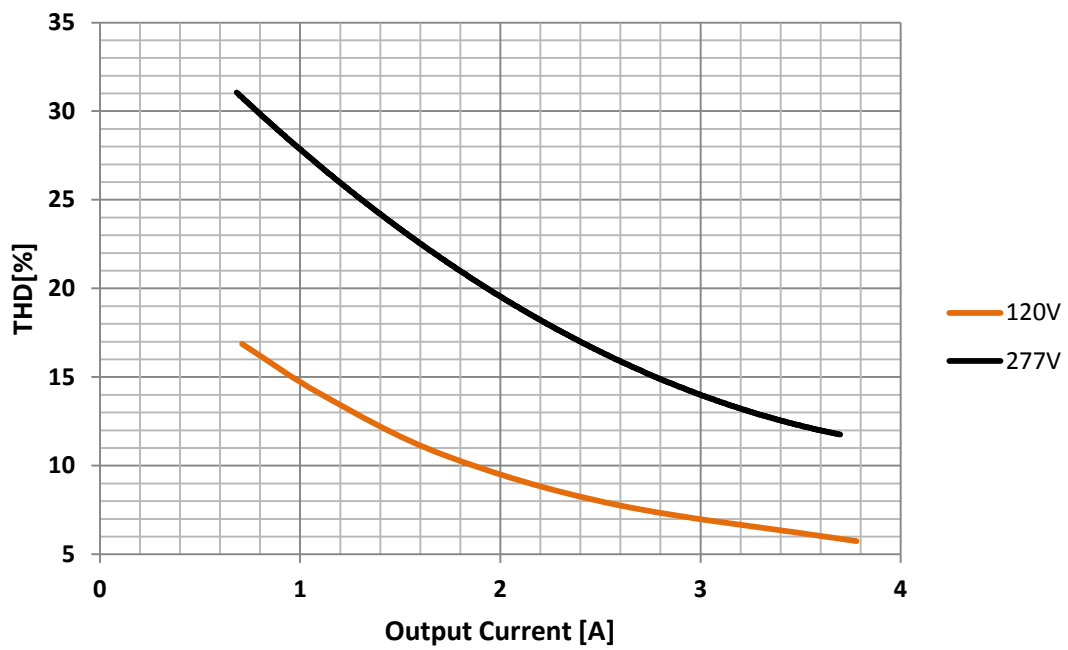


THD VS OUTPUT VOLTAGE/CURRENT

CONSTANT CURRENT MODE

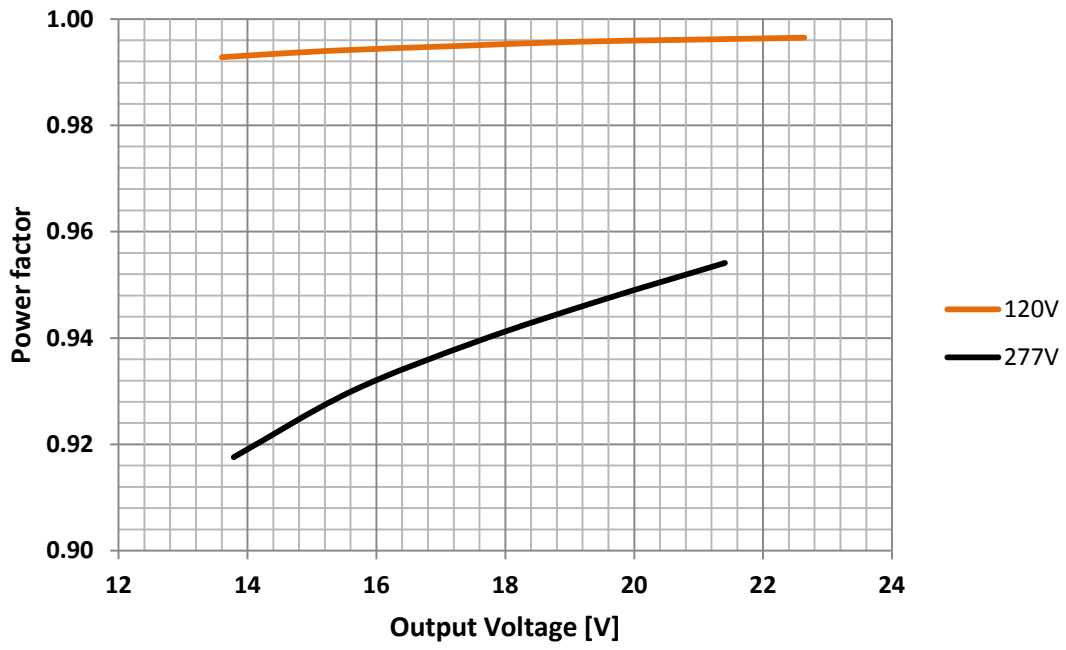


CONSTANT VOLTAGE MODE

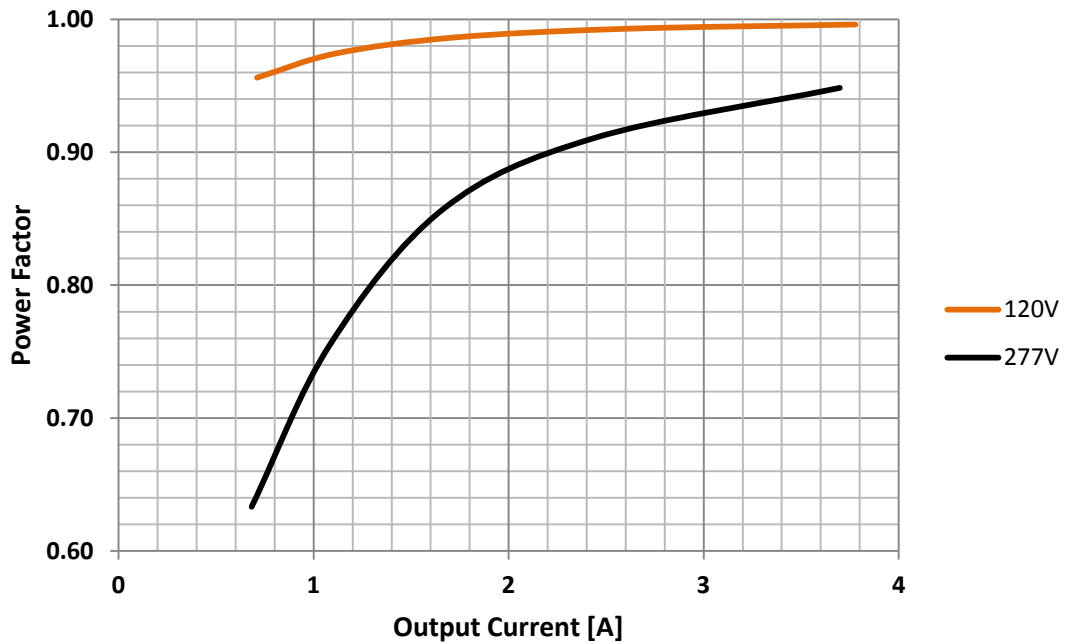


POWER FACTOR VS OUTPUT VOLTAGE/CURRENT

CONSTANT CURRENT MODE



CONSTANT VOLTAGE MODE



UL CONDITIONS OF ACCEPTABILITY (E320395)

- The maximum working voltage present and dielectric voltage-withstand test voltage applied between primary circuits and secondary output/enclosure for each models are tabulated below.

Working Voltage	Hi-pot P-S and P-enclosure
471 Vrms, 764 Vpk	4634 Vdc

- The LED drivers have been considered ambient 55°C. If operated at a higher ambient temperature, it should be determined in end product.
- The suitability of Electrical/Fire/Mechanical enclosure shall be determined in the end product.
- The units are intended for factory installation only.
- The LED drivers are intended for use in dry and/or damp locations. Other uses shall be considered in end product.
- The drivers shall be installed in compliance with the enclosure, mounting, spacing, casualty, and segregation requirements of the end product application.
- The suitability of input and output leads shall be determined in end product.
- The drivers are provided with isolated class 2 output.
- The necessity of repeated Leakage Current Test shall be determined in each end use application.

WARRANTY

OPTOTRONIC® products are covered by our LED Module, OPTOTRONIC Power Supply or Control Warranty. For additional details, refer to the latest version of the warranty (LED089) available at www.osramamericas.com/optotronic.