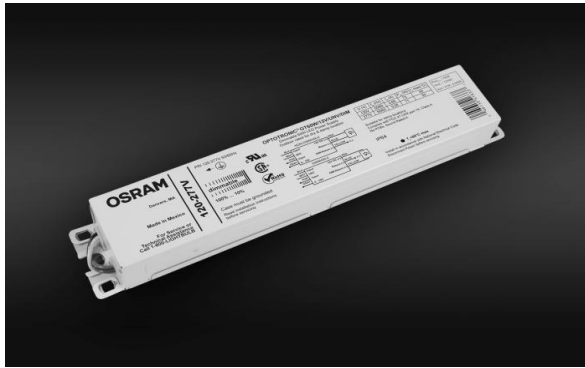


## OPTOTRONIC® Power Supply OT96W/24V/UNV/DIM



### GENERAL INFORMATION

Item Number	51520
Type	Constant Voltage
Output Power	96W (Max.)
Output Voltage	24V DC
Input	Universal (120-277V)

### ELECTRICAL SPECIFICATIONS

#### Input

Input Voltage (VAC)	120V-277V (+/- 10%)
Frequency Range (Hz)	50 – 60 Hz (+/- 10%)
Input Current (A)	0.91 @ 120V 0.39 @ 277V
Input Power (W)	111W
THD	< 20%
Power Factor	> 0.95
Inrush Current (A <sub>pk</sub> )	< 55A
Line Regulation	< 5%
Stand-by Power (W)	< 1.5W

#### Output

Output Voltage (VDC)	24V (+/- 5%)
Output Current (A)	0.1 – 4.0A
Output Ripple (V)	1V
Efficiency	>85% (Typical)
Load Regulation	<5%

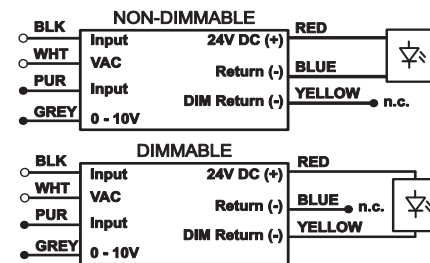
### DIMMING

Dimming Control	0 – 10V
Dimming Range	10 – 100%
Dimming Type	PWM
Frequency	250Hz
Dimming Input Isolation	2.5KV

### ENVIRONMENTAL SPECIFICATIONS

Ambient Operating Temp	-25 to 40 °C
Max. Case Temp. T <sub>c</sub>	75°C
Storage Temp.	-25 to 50 °C
Max. Relative Humidity (%)	96% non-condensing
Surge Protection (KV)	ANSI C62.41 Cat A (2.5KV)
Vibration Rating	3G
Overvoltage Protection	Yes
Short Circuit Protection	Yes
Over-temperature Protection	Yes
UL Environmental Rating	Damp
IP Rating	IP64
EMI Compliance	FCC Part 15 Class A

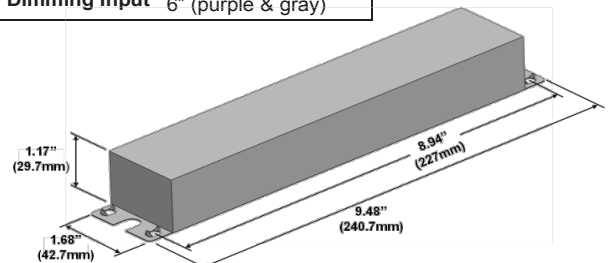
### WIRING DIAGRAM



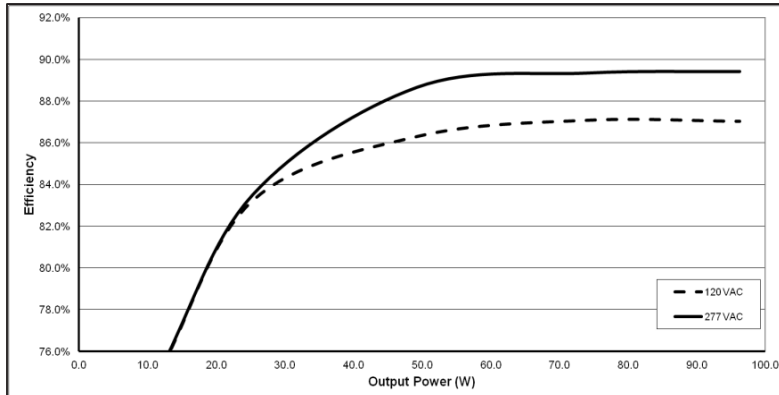
Note: Mounting distance for 18 AWG wire is 15 feet. For additional information on further distances and EMI compliance reference application note LED126.

### MECHANICAL DIAGRAM

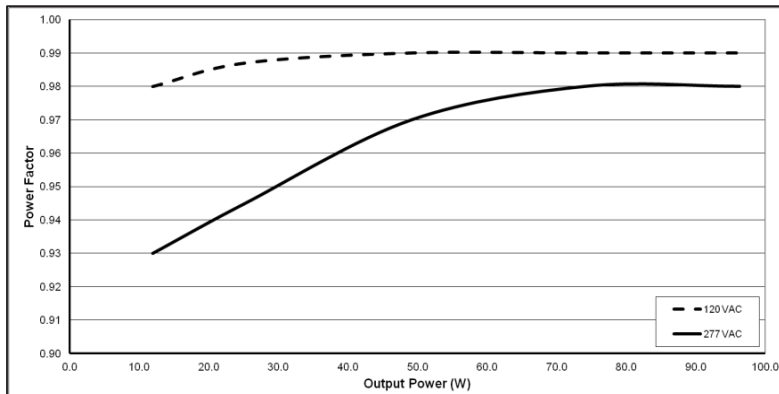
Wiring	Leads Only
Wire Gauge	18AWG
Input Wire	6" (black & White)
Output	6" (red, blue & yellow)
Dimming Input	6" (purple & gray)



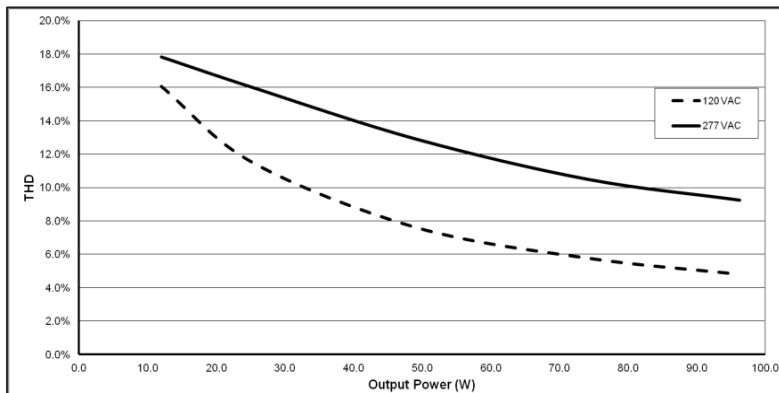
## TYPICAL EFFICIENCY



## TYPICAL POWER FACTOR



## TYPICAL THD



## WARRANTY

OPTOTRONIC<sup>®</sup> products are covered by our LED Module, OPTOTRONIC Power Supply or Control Warranty. For additional details, refer to the latest version of the warranty available at [www.sylvania.com](http://www.sylvania.com).

**United States**  
**OSRAM SYLVANIA**  
 100 Endicott Street  
 Danvers, MA 01923

### Trade

Phone: 1-800-255-5042  
 Fax: 1-800-255-5043

### National Accounts

Phone: 1-800-562-4671  
 Fax: 1-800-562-4674

### OEM/Special Markets

Phone: 1-800-762-7191  
 Fax: 1-800-762-7192

### Display Optic

Phone: 1-888-677-2627  
 Fax: 1-800-762-7192

### SYLVANIA Lighting Service

Phone: 1-800-323-0572  
 Fax: 1-800-537-0784

## Canada

**OSRAM SYLVANIA LTD./LTÉE**  
 2001 Drew Road  
 Mississauga, ON L5S 1S4

### Trade

Phone: 1-800-263-2852  
 Fax: 1-800-667-6772

### OEM/Special Markets

Phone: 1-800-265-2852  
 Fax: 1-800-667-6772

### SYLVANIA Lighting Service

Phone: 1-800-663-4268  
 Fax: 1-866-239-1278

## Mexico

### OSRAM Mexico

Headquarters  
 Tultitlan/Edo de Mexico  
 011-52-55-58-99-18-50