

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 _{pk})	< 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%

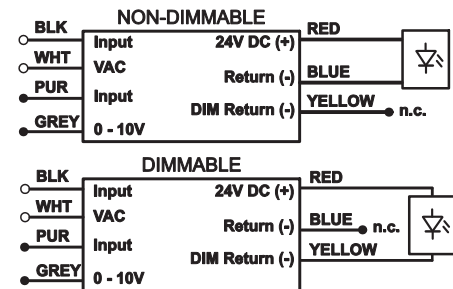
DIMMING

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 _c	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

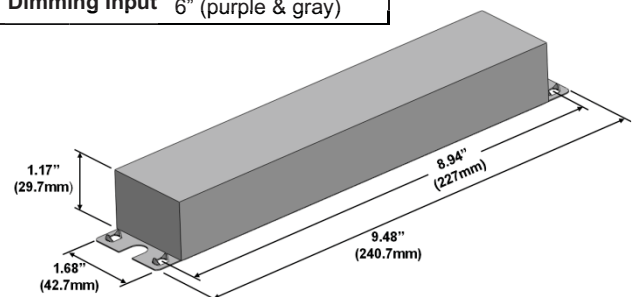
WIRING DIAGRAM



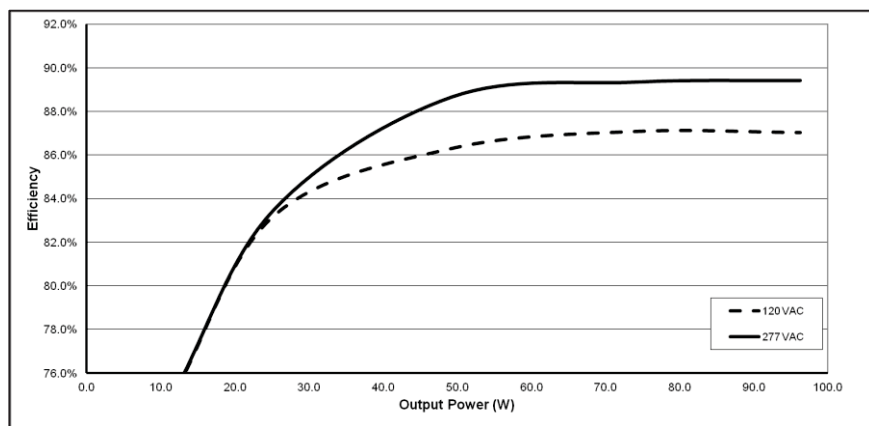
Note: Mounting distance for 18 AWG wire is 15 feet. For additional information on further distances and EMI compliance reference application note LED126.

MECHANICAL DIAGRAM

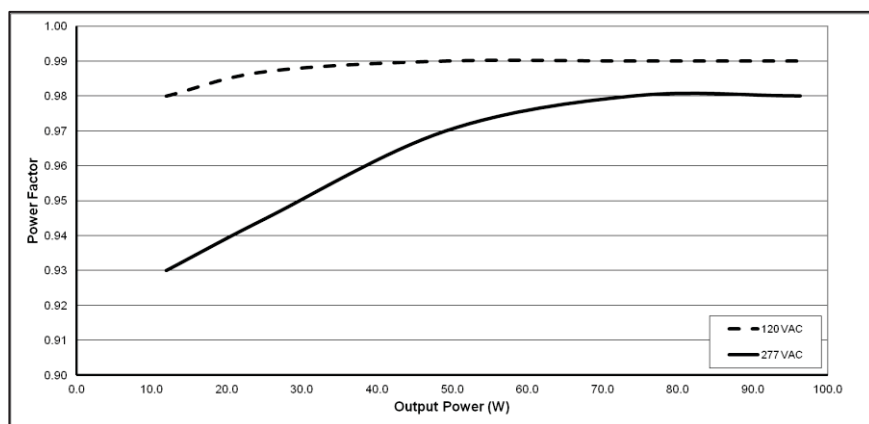
Wiring	Leads Only
Wire Gauge	18AWG
Input Wire	6" (black & White)
Output	6" (red, blue & yellow)
Dimming Input	6" (purple & gray)



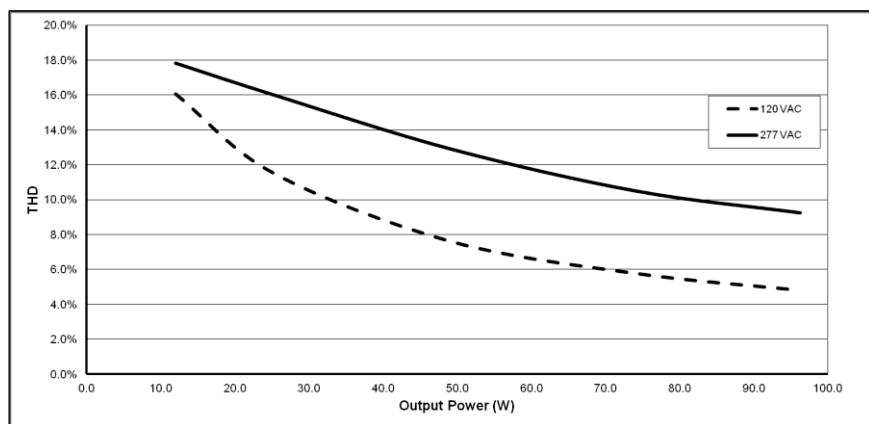
TYPICAL EFFICIENCY



TYPICAL POWER FACTOR



TYPICAL THD



WARRANTY

OPTOTRONIC® 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.

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

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96W Driver

POWER SUPPLY | 96ND-2.0-11X4X4

Remote Distance		Diameter	
7'-0"	(2.1m)	w/22 AWG	(.644mm)
18'-0"	(5.5m)	w/18 AWG	(1.02mm)
46'-0"	(14.0m)	w/14 AWG	(1.63mm)
71'-0"	(21.6m)	w/12 AWG	(2.05 mm)

100W	Max Run Length in Series		Max Run Lengths in Parallel	
line .75 - SO / ledge / luxrail	47'	(14.33m)	87'	(26.52m)
line .75 - HO / ledge / luxrail	12'	(3.66m)	23'	(7.018m)
line .75 - VHO (and color) / ledge	9'	(2.74m)	17'	(5.18m)
line 1.5 - SO	30'	(3.66m)	60'	(18.23m)
line 1.5 - HO	8'	(2.44m)	16'	(4.88m)
line 1.5 - VHO (and color)	6'	(1.82m)	12'	(3.66m)
line 2.0 - SO	26'	(7.92m)	26'	(7.92m)
line 2.0 - HO	17'	(5.18m)	17'	(5.18m)
line 2.0 - VHO	12'	(3.66m)	12'	(3.66m)
line 2.0 - V2HO / B / G / A	8'	(2.44m)	8'	(2.44m)
line 2.0 - R	6'	(1.82m)	6'	(1.82m)

11x4x4 Enclosure

POWER SUPPLY | 96ND-2.0-11X4X4



Enclosure Construction

Enclosure material is a molded fiberglass reinforced polyester (thermoset). The gasket is poured polurethane seamless gasket that provides watertight, dust-tight environmental seal. The cover screws are recessed, captive and stainless steel.

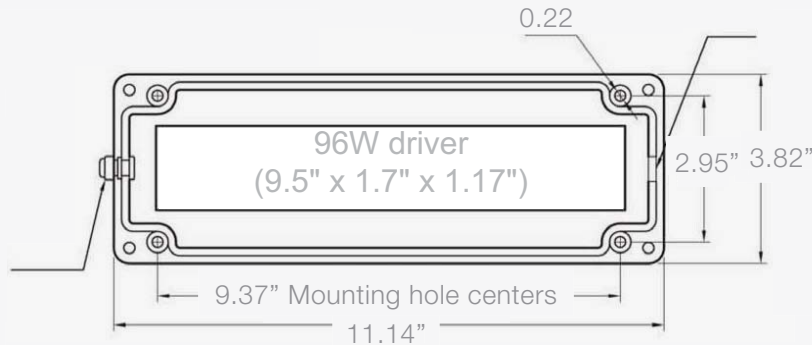
Enclosure Industry Standards

- UL/cUL 50: File E64358 type 1, 3, 4X 6P, 12
- NEMA 250: Type 1, 3, 4X, 6P, 12
- CSA Std 22.2: File LR069014 type 1, 3, 4X, 6P, 12
- Temp rating: (-40° to +120°C)
- Flammability rating: UL94-5V

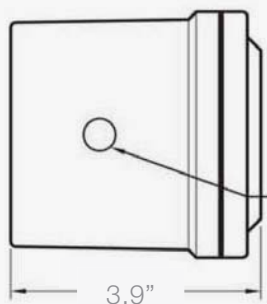
**One driver enclosure can hold one 20W or 96W driver and one dimming module.*

Front View Without Cover

Watertight gland provided by io. Gland can accept 0.114" to 0.25" O.D. wire. Wire is provided by contractor and must be rated for exterior applications.

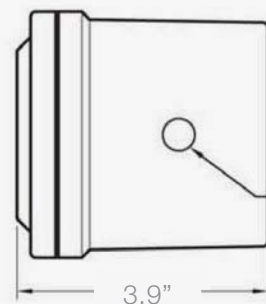


Left End View With Cover



Opening for water-tight gland. Gland is provided by io.

Right End View With Cover



Opening for 1/2" conduit entry. Conduit and conduit fittings provided by others.