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



GENERAL INFORMATION	
Item Number	51520
Туре	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% (<i>Typical</i>)		
Load Regulation	<5%		

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

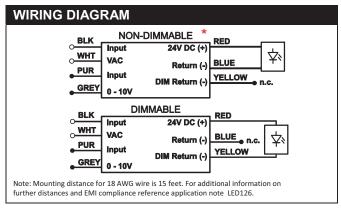
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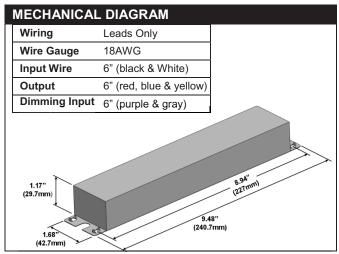






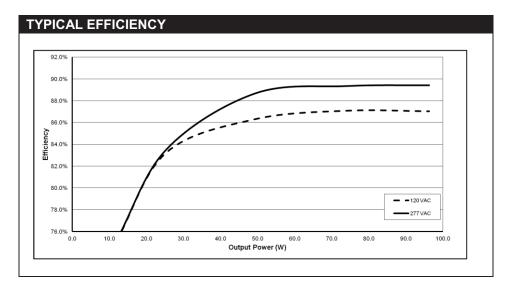
ENVIRONMENTAL SPECIFIC	CATIONS	
Ambient Operating Temp	-25 to 40 °C	
Max. Case Temp. Tc	75°C	
Storage Temp.	-25 to 50 °C	
Max. Relative Humidity (%)	96% non-condensing	
Surge Protection (KV)	ANSI C62.41 Cat A (2.5KV)	
Vibration Rating	3G	
Overvoltage Protection	Yes	
Short Circuit Protection	Yes	
Over-temperature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

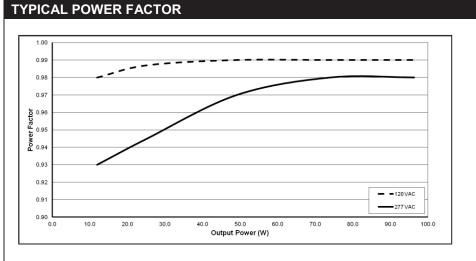


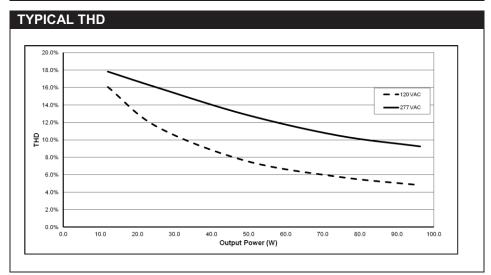


* When using the additional OTDIM unit, wire the 96W driver as in the NON-DIMMABLE diagram









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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 Ortic

Display Optic Phone: 1-888-677-2627

Fax: 1-800-762-7192 **SYLVANIA Lighting Service** Phone: 1-800-323-0572

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

Canada

OSRAM SYLVANIA LTD./LTÈE 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

Remote I	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)

POWER SUPPLY | 96D-2.0-11X4X4

11x4x4 Enclosure



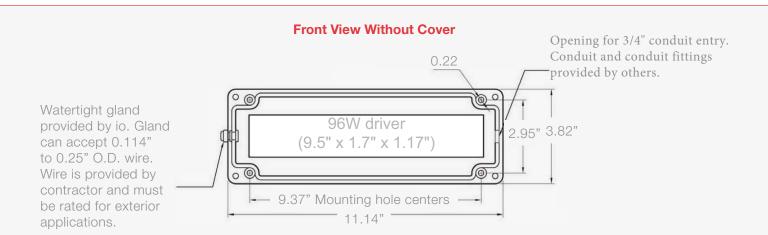
*One driver enclosure can hold one 20W or 96W driver and one dimming module.

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.

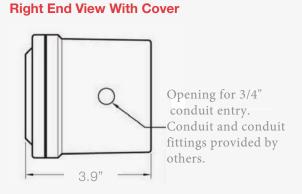
Enclosure Industry Standards

- 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





3.9"

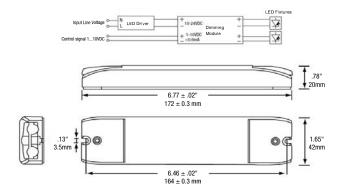




POWER SUPPLY | 96D-2.0-11X4X4

Dimming Module





DMX Compatibility

A DMX to 0-10V converter will typically be required to interface with DMX control systems. ETC has tested the dimming module with the Unison Series Dimming Rack. The Unison Flourescent Option Module will provide up to (24) 0-10 signals from a single unit. The dimming module has also been tested with a 0-10 converter from Northlight Systems.

Tested by OSRAM

Manufacturer	Туре	Model
HUNT	0-10 wall mount	PS-010
Leviton	0-10 wall mount	IP710-DLW
Lightolie	0-10 wall mount	ZP600F-AM 120W
Lutron	0-10 wall mount	NTFTV Series
	Control Panel	Grafik Eye
	Converter to 0-10v dc	GRX-TVI, GRX-TVM
NorthLight Systems	DMX to 0-10v Converter	8 channels
		24 channels

Source: OSRAM's "Controllers for LED Modules" PowerPoint

Key Features

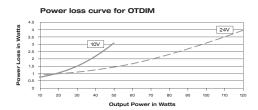
- Utilizes pulse width modulation (PWM), to control LED performance
- Options available for analog or DMX protocols
- Dimming range: 0-100%
- Short circuit, overload and overheating protection

Specifications

Location: Dry
Input Voltage: 24v DC
Max Input Current: 5.3A
Control Voltage: 0-10v DC
Frequency: 135 HZ

Ambient Temp: -20°C to +50°C

Weight: .165 lbs
Power Consumption: Up to 3W



Lutron Products 0-10 V (current sink) IEC 60929

Entire Room Controls	
Radio Touch™	Included
microWatt™	Included
Grafik Eye	
3000/2000	GRX-TVI
4000°	TVM Module
GXI	Included
Spacer System	SPSF-6A + GRX - TVI
Building Controls	
LCP128 [™]	TVM Module
G5000™/6000/7000™	TVM Module
Whole Home Controls	
Radio RA®	RA-6ND + GRX-TVI
Homeworks®	GRX-TVI, TVM
Wallbox	
NovaT®*	NTFTV
Nova®	NFTV
Vareo® 2	VF10 + GRX-TVI
Diva® 2	DVF103P + GRX-TVI
Skylark [®] 2	SF103P + GRX-TVI

Source: Lutron Application Note #138:

^{*}Please contact specific manufacturers for details on specific dimming control

