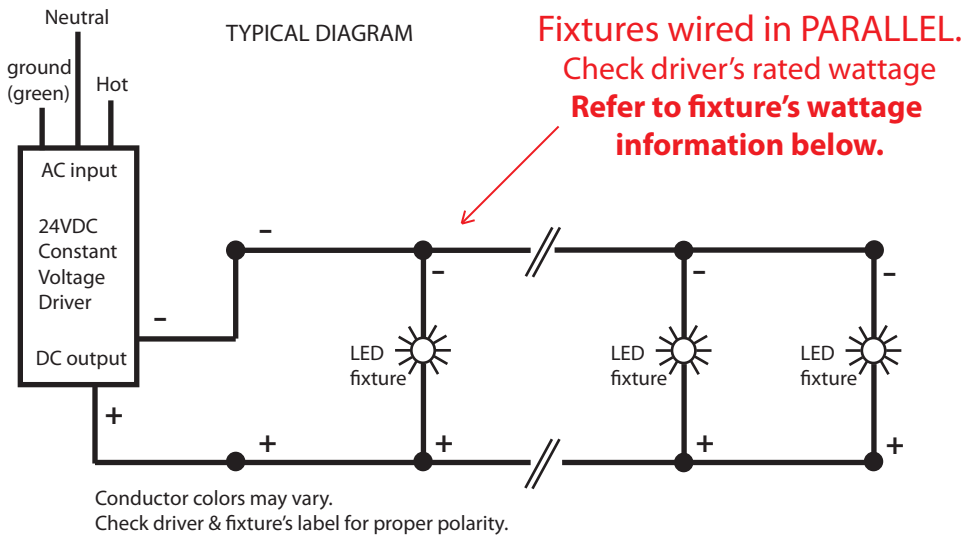


Constant Voltage drivers

Wiring Key Points

1. This product shall be installed by a qualified electrician.
2. Make sure the main power supply to the driver is turned off when wiring either the LEDs or driver.
3. LEDs shall be wired in parallel as shown in wiring diagram. CAUTION: incorrect wiring may damage LEDs.
4. Wire shall be #18AWG stranded minimum. Large gauge wire shall be used to limit voltage drop in order to maintain the proper operating voltage. Take every precaution to avoid interference from other electrical circuits and equipment.
5. Dimming circuits are more sensitive to voltage drop and electrical interference from other electrical sources.
6. Isolating LED wiring by dedicated circuit for each control zone is recommended.
7. Contractor shall verify the fixture quantities connected to the driver are compatible with the driver's specifications prior to energizing the circuit.
8. All Class II power cable remote wiring and driver enclosures by others.

LED's can be permanently damaged if these points are not followed



Maximum wiring distance*

Wire gauge	Load per driver		
	≤48W	≤72W	≤96W
#18AWG	37'	25'	18'
#16AWG	59'	39'	29'
#14AWG	95'	63'	47'
#12AWG	151'	101'	75'
#10AWG	241'	160'	120'

* Voltage drop guide for 24VDC. Actual Voltage drop to be calculated by installer.

Fixture

Nominal Length

Watts/fixture

inter•lux

Project:

Type:

Date:

Manufacturer:

Fixture:

Page:

Inter-Lux

Sylvania Optotronic® Constant Voltage Electronic 24V DC LED Power Supplies

Ordering Information

Inter-lux part #	Qty.	Ordering Abbreviation	Nominal Input Voltage (V)	Nominal Input Current (A)	Power Factor	Output Power Range (W)	Dimming Mode	Dimming Control	Dimming Range	Location Rating	Item Number
D-520-24006		OT96W/24V/UNV/DIM	120 277	0.97 0.39	0.9	1-96	PWM	0-10V DC	10-100%	Damp	51520
D-520-24004		OT20W/24V/120-240V/SQ	120	0.38	0.5	0.9-20	n/a	n/a	n/a	Dry	51512
D-520-24005		OT75W/24V/UNV	120 277	0.76 0.33	0.99	0.9-75	n/a	n/a	n/a	Damp	51514
D-520-24008		OT96W/24V/UNV/JBX ←	120 277	0.91 0.39	0.99	0.8-96	n/a	n/a	n/a	Wet ²	51626
D-520-24012		OT240W/3X24V/120-240V/JBX	120	2.39	0.99	0.8-240	n/a	n/a	n/a	Wet ²	51627

Notes:

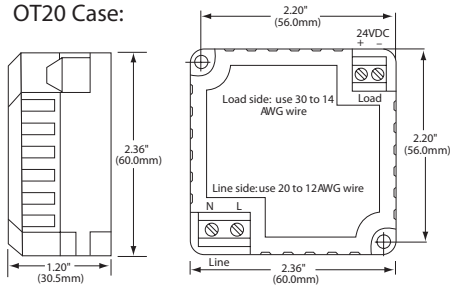
- All power supplies can be remote mounted up to 32 feet. Although it is possible to exceed the remote mounting distance, the installer and/or end user must take precautions to prevent and/or test the effects of EMI (electromagnetic interference).
- Use wiring rated and marked PLTC, CL3R, and "sun resistant"

Minimum and Maximum Ratings

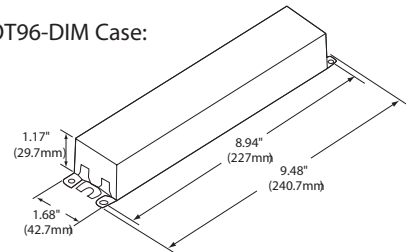
Parameter	Power Supply	Values
Ambient Temperature Range	OT20	-20°C through +50°C
	OT75	-25°C through +60°C
	OT96	-20°C through +40°C
	OT96JBX and OT240	-30°C through +70°C

Case dimensions

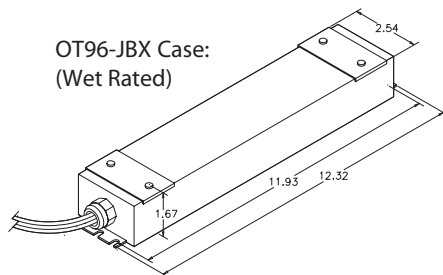
OT20 Case:



OT75 & OT96-DIM Case:

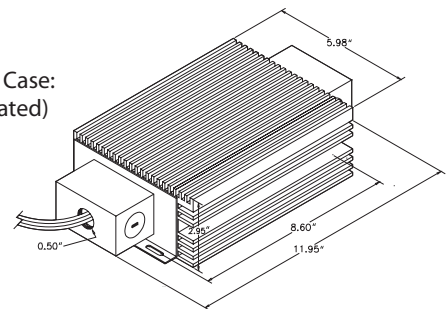


OT96-JBX Case:
(Wet Rated)



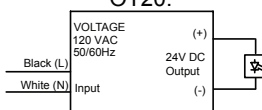
Input: wires with a UL Listed, 1/2" metallic fitting
Output: wires with a UL Listed, 1/2" plastic fitting

OT240 Case:
(Wet Rated)

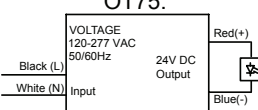


Wiring Diagrams

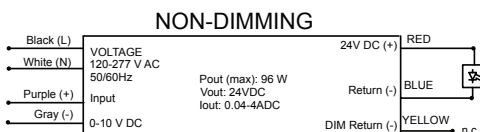
OT20:



OT75:



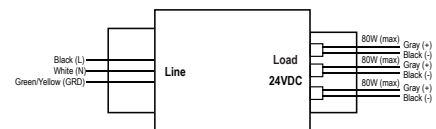
OT96DIM only:



DIMMING



OT240:



Specifications and Certifications

OT20, OT75, OT96, OT96DIM: UL 1310, UL48
Recognized for US & Canada Class 2 Unit

OT96 (NAED 51626) & OT240 (NAED 51627):
UL48 Listed for US & Canada Class 2 Unit