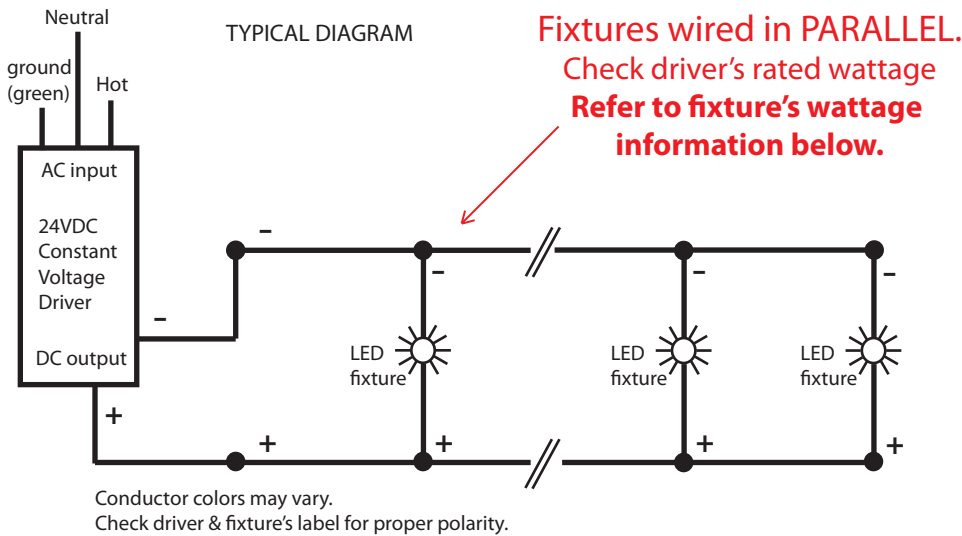


Constant Voltage drivers

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 |

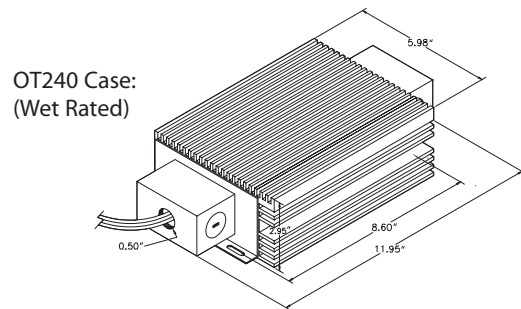
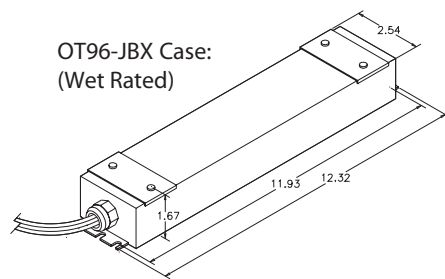
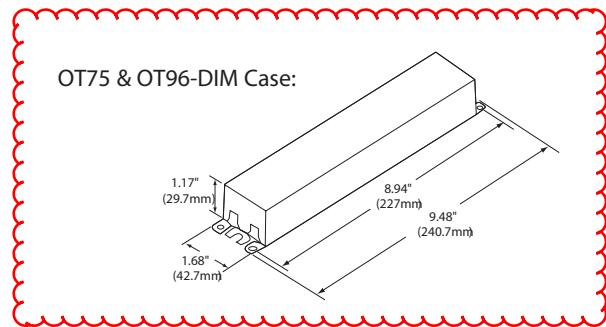
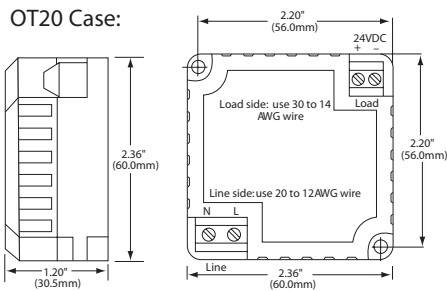
Notes:

- 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

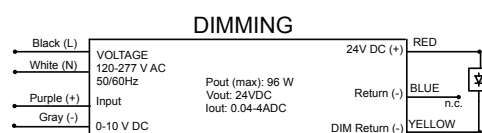
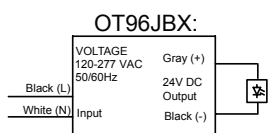
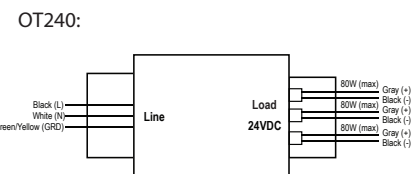
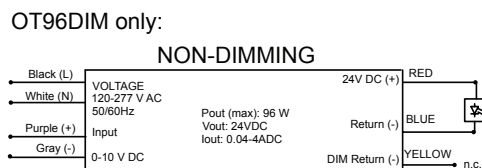
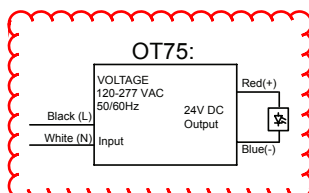
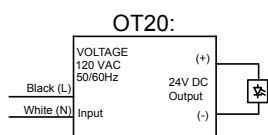
| Parameter | Power Supply | Values |
|---------------------------|-------------------|---------------------|
| Ambient Temperature Range | OT20 | -20°C through +50°C |
| | OT75 | -25°C through +60°C |
| | OT96 | -20°C through +40°C |
| | OT96JBX and OT240 | -30°C through +70°C |

Case dimensions



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

Wiring Diagrams



Specifications and Certifications

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

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