

# Max. 200W TDWJ Series Drivers

## MODEL OT-12200-TDWJ | OT-24200-TDWJ



### HIGHLIGHTS

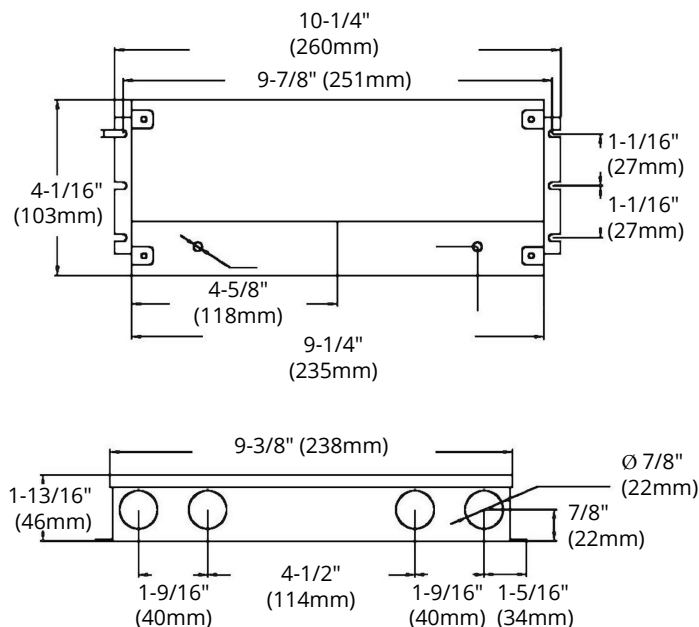
- Maximum 200W TDWJ Series LED Driver available in 12V DC (OT-12200-TDWJ) and 24V DC (OT-24200-TDWJ) output
- High efficiency: up to 83% (OT-12200-TDWJ) and 86% (OT-24200-TDWJ), and minimum load 10% only
- Works for 110-277V AC input, 120V and 277V dimmers, allows for flicker free dimming down to 1%
- Flicker-free and compatible with Forward phase, Reverse phase, TRIAC, MLV, ELV Dimmers
- PWM (Pulse-Width Modulation) output, does not change the colour index
- Match with TRIAC, electronic low voltage, magnetic low voltage dimmers
- Full protection aluminum housing for dry / damp locations
- Suitable for LED lighting and moving sign applications
- Cooling by free air convection

### SPECIFICATIONS

| Model                | OT-12200-TDWJ                                                                 | OT-24200-TDWJ                     |
|----------------------|-------------------------------------------------------------------------------|-----------------------------------|
| Input Voltage        | 110-277V AC                                                                   |                                   |
| Output Voltage       | 12V DC                                                                        | 24V DC                            |
| Maximum Wattage      | 200W                                                                          |                                   |
| Amps                 | 16.66A                                                                        | 8.33A                             |
| Dimmable             | Yes                                                                           |                                   |
| Frequency Range      | 47-63Hz                                                                       |                                   |
| Power Factor         | 0.98 at 120V AC   0.97 at 277V AC                                             | 0.98 at 120V AC   0.95 at 277V AC |
| Efficiency (Typ.)    | 83%                                                                           | 86%                               |
| AC Current (Max.)    | 2.3A at 110V AC                                                               |                                   |
| Short Circuit        | Shut down o/p voltage; repower on to recover after fault condition is removed |                                   |
| Over Loading         | 120%                                                                          |                                   |
| Operating Temp.      | -40°C ~ +60°C                                                                 |                                   |
| Operating Humidity   | 20-90% RH, non-condensing                                                     |                                   |
| Safety Standards     | UL 8750                                                                       |                                   |
| Withstand Voltage    | I/P-O/P: 1880V AC                                                             |                                   |
| Isolation Resistance | I/P-O/P: 100MΩ / 500V DC / +25°C / 70% RH                                     |                                   |
| Warranty             | 5 years                                                                       |                                   |

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## DIMENSIONS



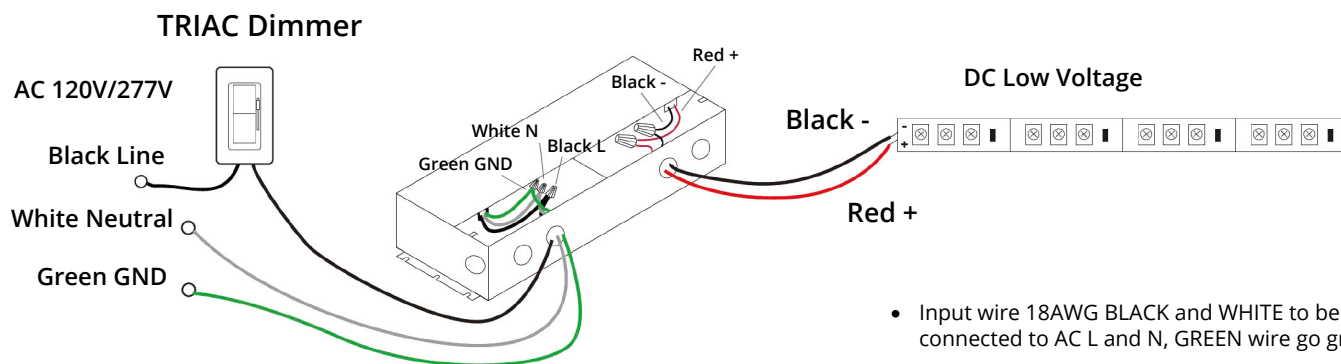
## Important Reminder

- All parameters if NOT specially mentioned are measured at 120V AC input, rated load and +25°C of ambient temperature
- To extend the driver's lifespan, please reduce the loading at lower input voltage

## Dimming Operation

- The Pulse-Width Modulation (PWM) of output voltage can be adjusted through input terminal of the AC phase line (L) by connecting a phase / TRIAC dimmer
- Usually matching with Forward phase, leading edge, magnetic low voltage, TRIAC Dimmers, or Reverse phase, trailing edge, Electric low voltage Dimmers
- Please try to use dimmers with power at least 1.5 times as the output power of the driver

## WIRING DIAGRAM



- Input wire 18AWG BLACK and WHITE to be connected to AC L and N, GREEN wire go ground
- Output wire 14AWG RED to LED positive side (+), BLACK to LED negative side (-)

ORTECH reserves the right to modify at any time, without notice, any or all of our product's features, designs, components and specifications to meet market changes.

| Reference | QTY. | Remarks | Project:      |
|-----------|------|---------|---------------|
|           |      |         | Location:     |
|           |      |         | Architect:    |
|           |      |         | Engineer:     |
|           |      |         | Contractor:   |
|           |      |         | Submitted by: |
|           |      |         | Date:         |