

## OPTOTRONIC® OT 96W Dimmable LED Driver



|                |                      |
|----------------|----------------------|
| Item Number    | *2743UN (51520)      |
| Type           | Constant Voltage     |
| Output Power   | 96W (Max.)           |
| Output Voltage | 24V DC               |
| Input          | Universal (120-277V) |

Find (NAED) as cross reference for new item number i.e. \*12345

### Electrical Specifications

| Input                             |                            |
|-----------------------------------|----------------------------|
| Input Voltage (VAC)               | 120V-277V (+/- 10%)        |
| Frequency Range (Hz)              | 50 – 60 Hz (+/- 10%)       |
| Input Current (A)                 | 0.91 @ 120V<br>0.39 @ 277V |
| Input Power (W)                   | 111W                       |
| THD                               | < 20%                      |
| Power Factor                      | > 0.95                     |
| Inrush Current (A <sub>pk</sub> ) | < 55A                      |
| Line Regulation                   | < 5%                       |
| Stand-by Power (W)                | < 1.5W                     |

### Environmental Specifications

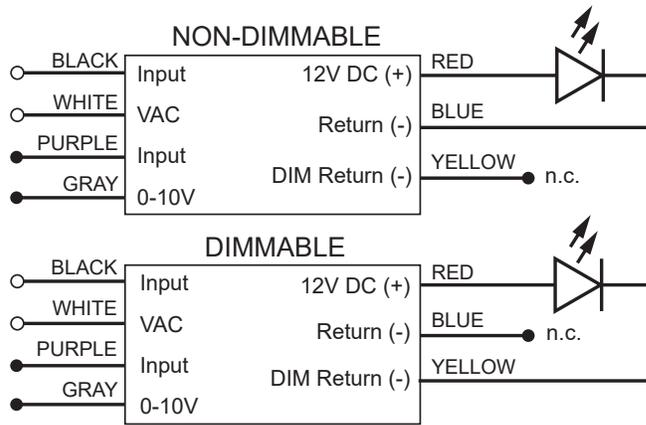
|   |                              |
|---|------------------------------|
| Ambient Operating Temperature           | -25 to 40 °C                 |
| Max. Case Temperature (T <sub>c</sub> ) | 75°C                         |
| Storage Temp.                           | -25 to 50 °C                 |
| Max. Relative Humidity (%)              | 96% non-condensing           |
| Surge Protection (KV)                   | ANSI C62.41 Cat A<br>(2.5KV) |
| Vibration Rating                        | 3G                           |
| Overvoltage Protection                  | Yes                          |
| Short Circuit Protection                | Yes                          |
| Over-temperature Protection             | Yes                          |
| UL Environmental Rating                 | Wet                          |
| UL File Number                          | E333135                      |
| IP Rating                               | IP64                         |
| EMI Compliance                          | FCC Part 15 Class A          |

| Output               |                |
|----------------------|----------------|
| Output Voltage (VDC) | 12V (+/- 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     |



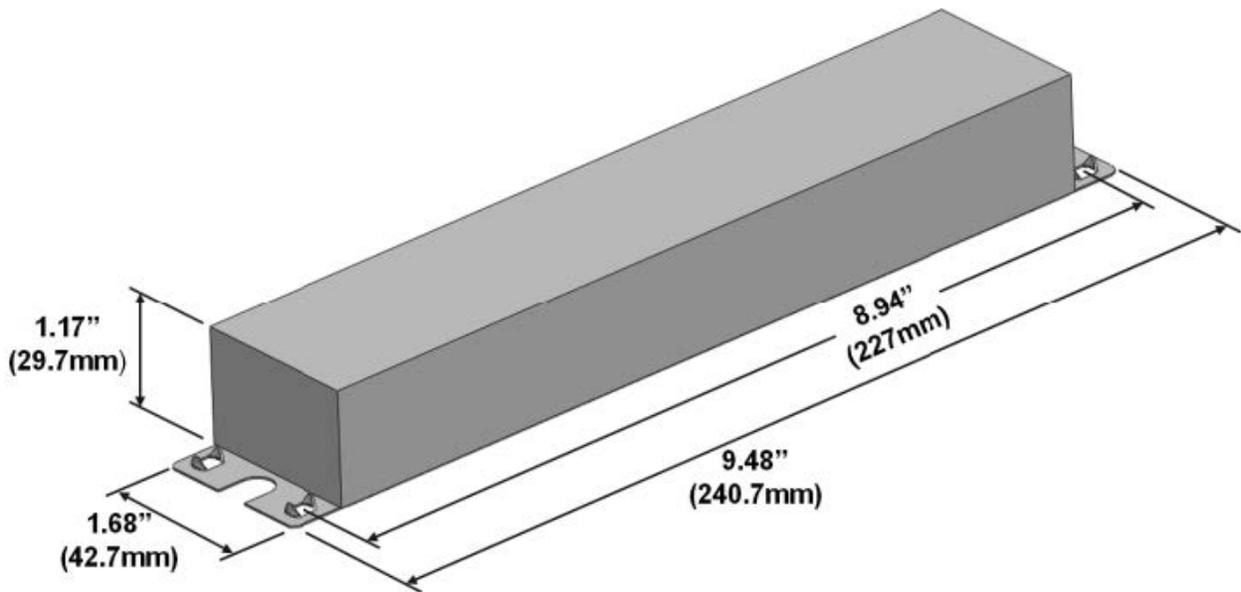
## Wiring Diagram



**Note:** Mounting distance for 18 AWG wire is 15 feet.

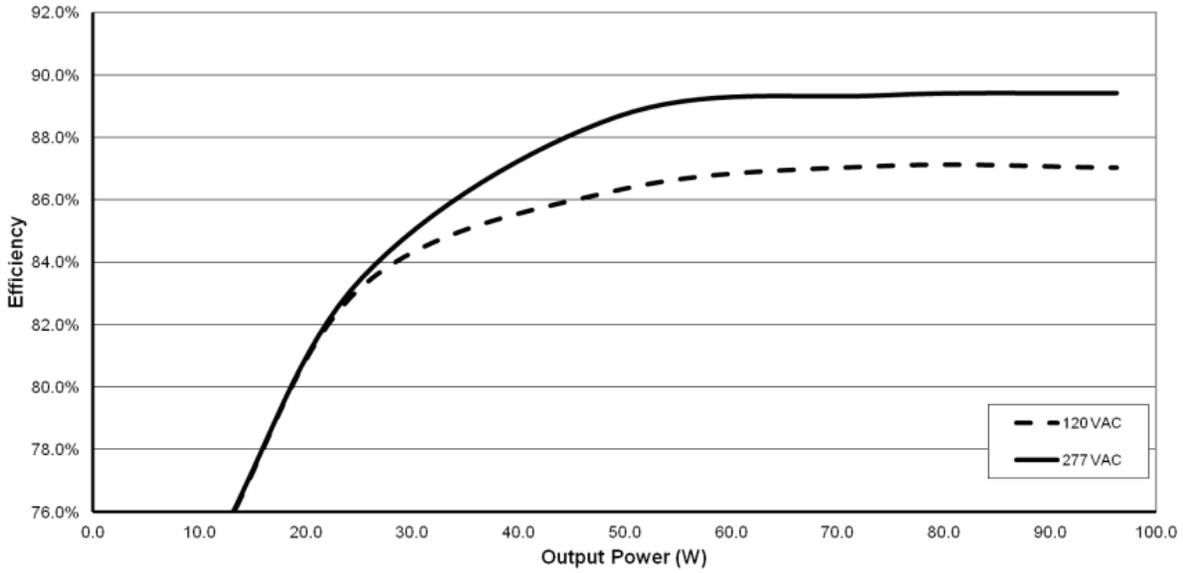
|               |                           |
|---------------|---------------------------|
| Wiring        | Leads Only                |
| Wire Gauge    | 18AWG                     |
| Input Wire    | 6" (black and white)      |
| Output        | 6" (red, blue and yellow) |
| Dimming Input | 6" (purple and gray)      |

## Mechanical Diagram

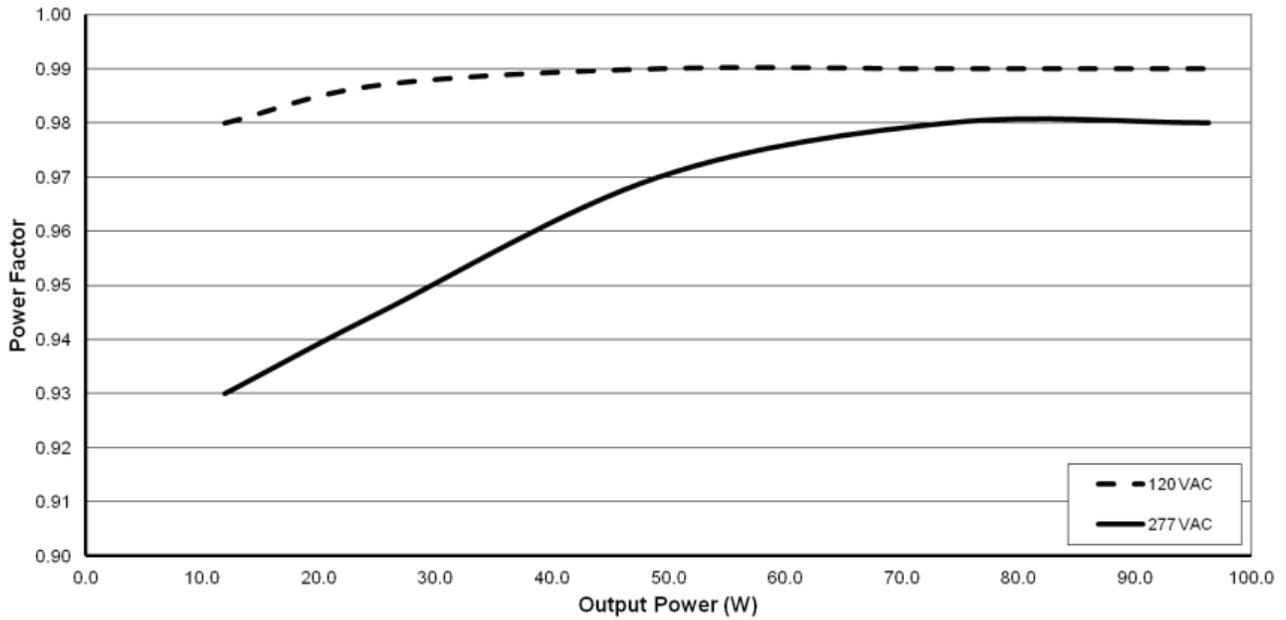


|        |                 |
|--------|-----------------|
| Length | 9.48" (240.7mm) |
| Width  | 1.68" (42.7mm)  |
| Height | 1.17" (29.7mm)  |

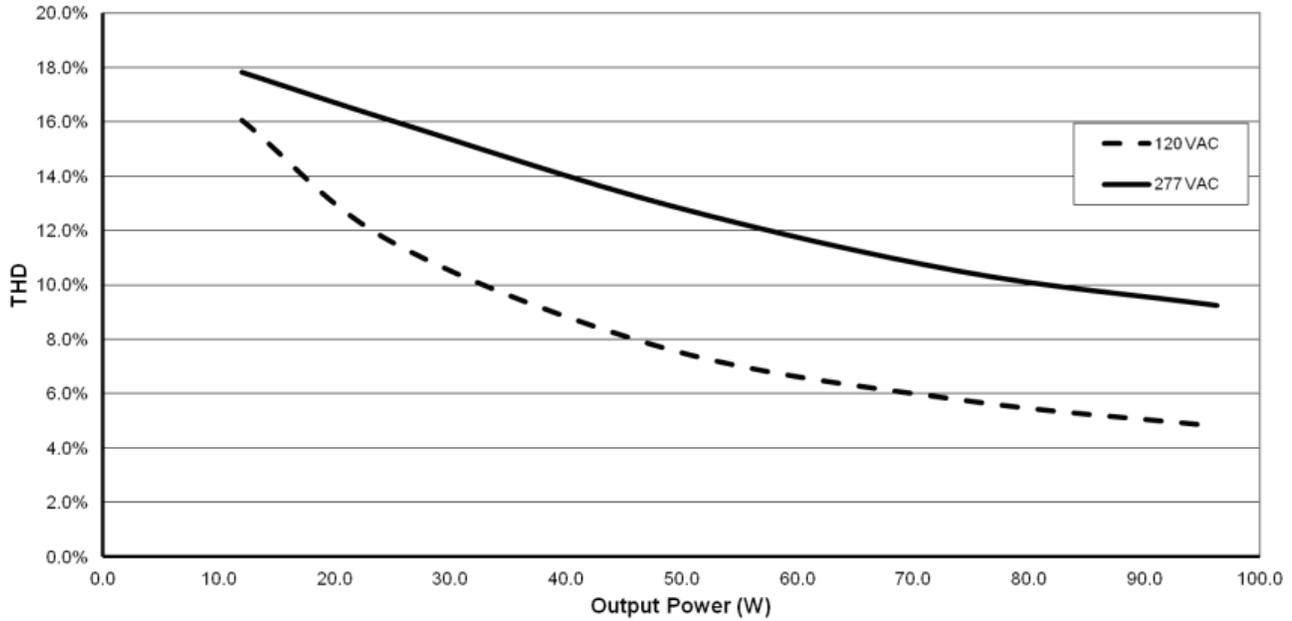
## Typical Efficiency



## Typical Power Factor



### Typical THD



### Warranty

OPTOTRONIC® by eldoLED Products are covered by a 5-year limited warranty.  
Complete warranty terms can be found at: [www.eldoled.com/legal/terms-and-conditions](http://www.eldoled.com/legal/terms-and-conditions)

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Specifications subject to change without notice. Actual performance may differ as a result of end-user environment and application.