



Electrical Specifications

Input

| | | |
|--|----------------------|--------------|
| Input Voltage (VAC) | 120V-277V (+/- 10%) | |
| Frequency Range (Hz) | 50 – 60 Hz (+/- 10%) | |
| | 120V | 277V |
| Input Current (A) | 0.56 | 0.24 |
| THD @ Full load | <20% | <20% |
| Power Factor @ Full load | >0.9 | >0.9 |
| Efficiency @ Full load | ≥89% | ≥89% |
| Inrush Current (Apk, T@10% of Apk) ² | 7.4A, 120µs | 21.2A, 150µs |

2 - Complies with NEMA 410 inrush current

General Information

| | |
|--------------|---|
| Item Number | *2743WL (57437) *2743WM (57438) *2743XC (57463) |
| Type | Constant Current, Class 2 |
| Output Power | 55W (Max.) |

Environmental Specifications

| | |
|-------------------------------|---------------------------------------|
| Ambient Operating Temperature | -20°C to 50°C |
| Case Temperature (Tc) | 80°C (50kHrs) ¹ |
| Max. Storage Temp. | 70°C |
| Max. Relative Humidity (%) | 85% non-condensing |
| Transient Protection | ANSI C62.41 Cat. A 2.5kV Ring Wave |
| EFT | IEC 61000-4-4 (1kV) |
| UL Rating | Dry & Damp |
| UL File number | E320395 |
| EMI Compliance | FCC Part 15 Class A |
| Sound Rating | Class A |

1 - Warranty applicable only at 80°C

Output

| | |
|---------------------------------|---|
| Output Current (mA) | 800mA/1000mA/1200mA 800mA/975mA/1200mA |
| Output Voltage (VDC) | 20-50VDC |
| Output Ripple Current | <30% @ full load |
| Max. Output Power (W) | 55W |
| LED Power-Up Time | <1sec |
| Load Regulation | <5% |
| Line Regulation | <10% |
| Over Voltage (4V over limit) | Yes, non-latching |
| Output Short-Circuit Protection | Yes, non-latching |

Dimming

| | |
|-------------------------|-------------------|
| Dimming Control | 0 – 10V |
| Dimming Range | 10-100% |
| Dimming Type | Current Reduction |
| Dimming Input Isolation | 2.5kV |
| Source Current | 2mA max |

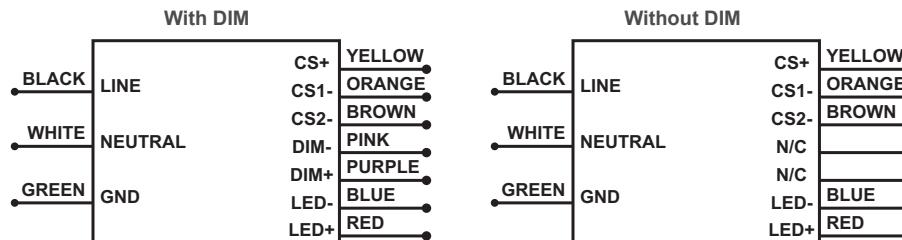
CAUTION: Two power supplies if dimming is connected to non-class 2 circuits.



Ordering Guide

| Item Number | Original Item Number | Ordering Description |
|-------------|----------------------|-----------------------------|
| *2743WL | 57437 | OT 55W/UNV/1A2 CS L |
| *2743WM | 57438 | OT 55W/UNV/1A2 CS DIM L |
| *2743XC | 57463 | OT 55W/UNV/1A2 CS DIM L 975 |

Wiring Diagram



Note:

- Maximum suggested remote mounting distance is 8 feet.
- Use solid copper wire only (16-22 AWG).
- For Connections Use Wire Rated for at Least 90°C (194°F) or equivalent.
- Strip as below for all wires.



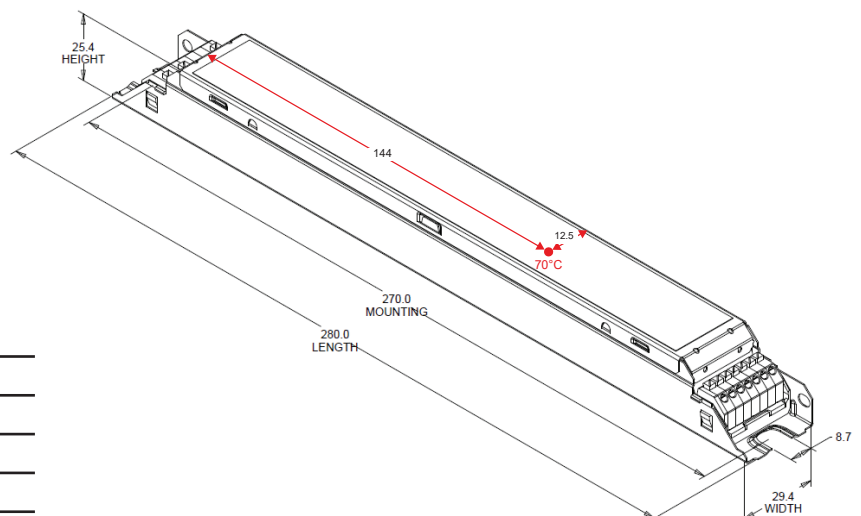
Selecting Currents

To select the desired output current value, short the output pins corresponding to the table below:

| | No Short-Circuit | Short CS+ and CS1- | Short CS+ and CS2- |
|--------------------------|------------------|--------------------|--------------------|
| OT55 800mA/1000mA/1200mA | 800mA | 1200mA | 1000mA |
| OT55 800mA/975mA/1200mA | 800mA | 1200mA | 975mA |

Note: The jumper wire should be completely insulated and conductive parts must not be accessible when installed on the driver's output connector.

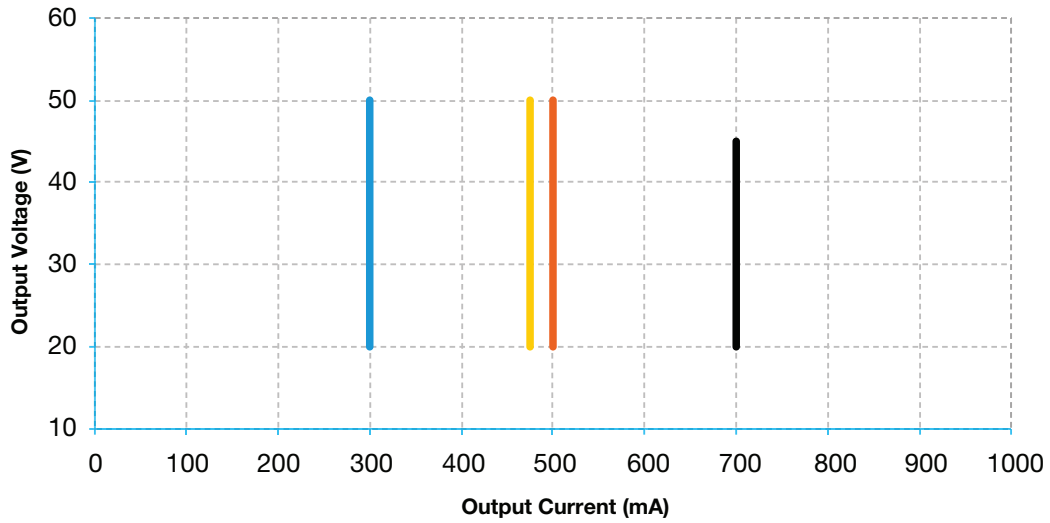
Mechanical Diagram



Mechanical Specification

| | |
|--------------------|----------------|
| Length | 11.02" (280mm) |
| Width | 1.15" (29.4mm) |
| Height | 1.0" (25.4mm) |
| Mounting Length | 10.63" (270mm) |
| Tc Point from side | 0.50" (12.5mm) |
| Tc Point from end | 5.7" (144mm) |

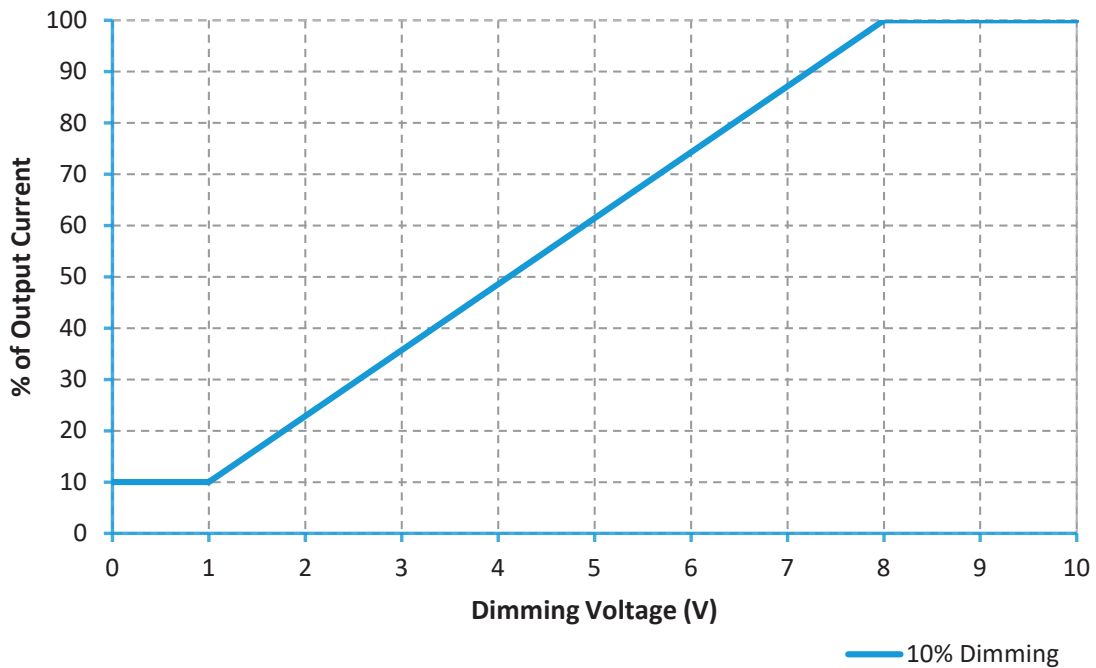
Operating Range



Note: Meeting DLC requirements requires minimum 50% loading.

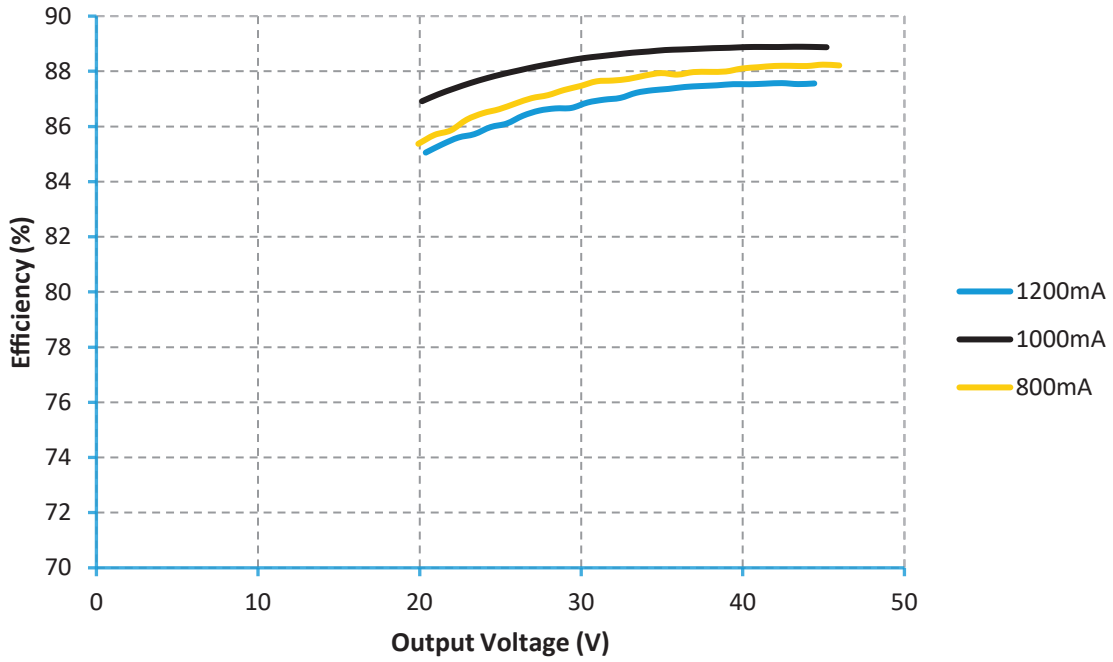
Note: When using 1200mA setting, load voltage cannot exceed 45V (55W max).

Dimming Curve

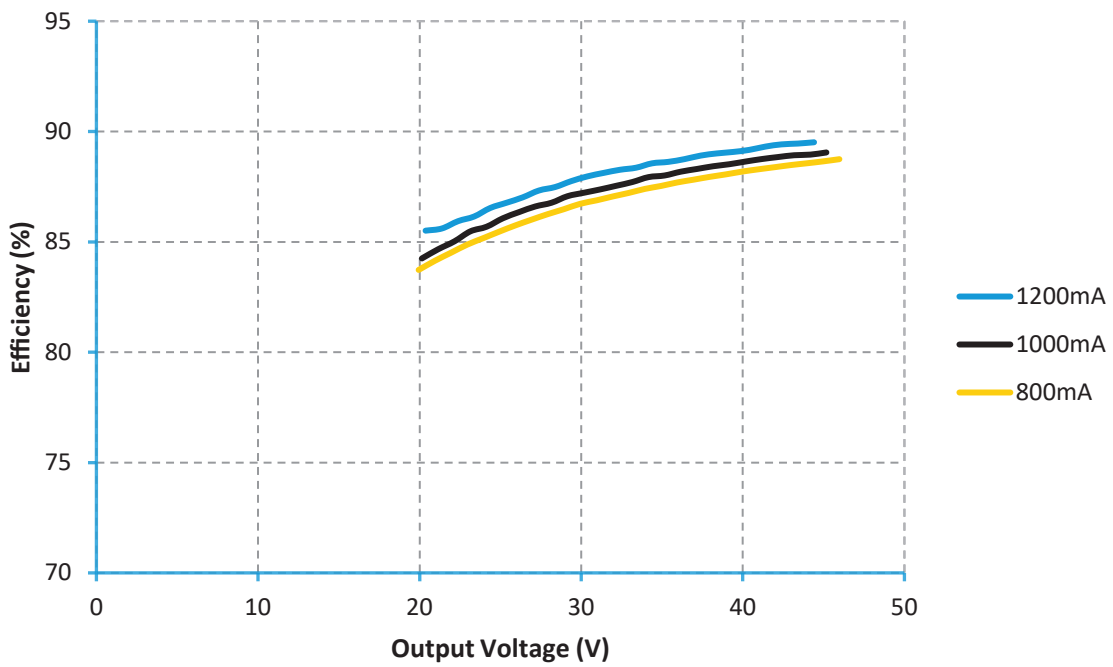


Efficiency vs. Output Voltage

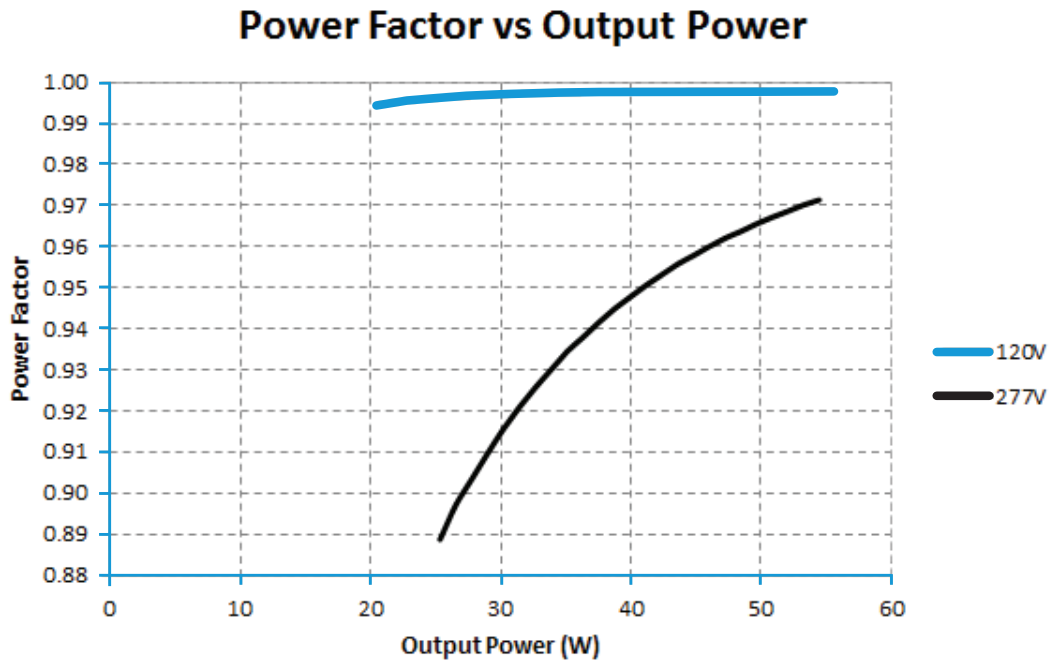
Efficiency @ 120V



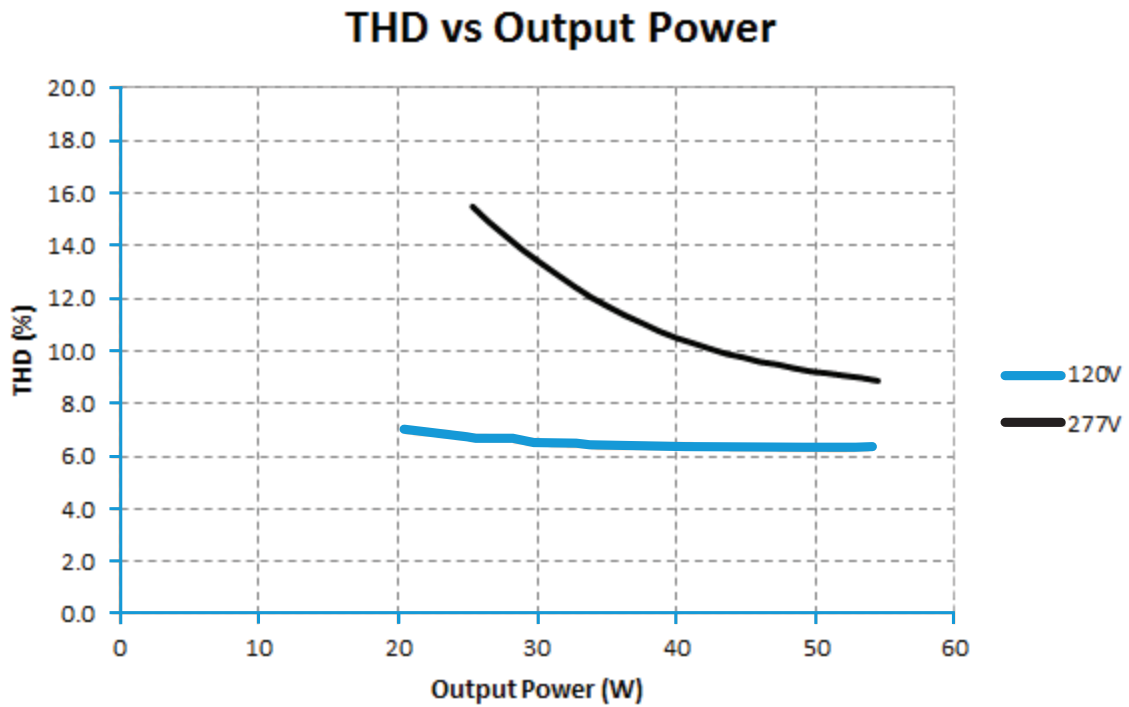
Efficiency @ 277V



Power Factor vs Load



THD vs Load



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

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

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