## GENERAL INFORMATION
<table>
<thead>
<tr>
<th>Item Number</th>
<th>51520</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Constant Voltage</td>
</tr>
<tr>
<td>Output Power</td>
<td>96W (Max.)</td>
</tr>
<tr>
<td>Output Voltage</td>
<td>24V DC</td>
</tr>
<tr>
<td>Input</td>
<td>Universal (120-277V)</td>
</tr>
</tbody>
</table>

## ELECTRICAL SPECIFICATIONS

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

### Output
- Output Voltage (VDC) 24V (+/- 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

## ENVIRONMENTAL SPECIFICATIONS
- Ambient Operating Temp -25 to 40 °C
- Max. Case Temp. Tc 75°C
- Storage Temp. -25 to 50 °C
- Max. Relative Humidity (%) 96% non-condensing
- Surge Protection (KV) ANSI C62.41 Cat A (2.5KV)
- Vibration Rating 3G
- Overvoltage Protection Yes
- Short Circuit Protection Yes
- Over-temperature Protection Yes
- UL Environmental Rating Damp
- IP Rating IP64
- EMI Compliance FCC Part 15 Class A

## WIRING DIAGRAM
[Diagram showing wire connections and labels]

Note: Mounting distance for 18 AWG wire is 15 feet. For additional information on further distances and EMI compliance reference application note LED126.

## MECHANICAL DIAGRAM
[Diagram showing the mechanical layout and dimensions]
TYPICAL EFFICIENCY

![Efficiency Graph]

TYPICAL POWER FACTOR

![Power Factor Graph]

TYPICAL THD

![THD Graph]

WARRANTY

OPTOTRONIC® products are covered by our LED Module, OPTOTRONIC Power Supply or Control Warranty. For additional details, refer to the latest version of the warranty available at www.sylvania.com.

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## Key Features

- UL Class 2
- Ultra small, compact size
- Tightly regulated output: 1% line, 5% load
- Power factor: 90% min
- Total harmonic distortion: 20% max
- Current crest factor: 1.5 max

## Specifications

- **Location:** Damp IP66
- **Output Voltage:** 24v DC
- **Output Power:** 100w
- **Input Voltage:** 120 to 277 VAC
- **Ambient Temp:** -40˚C to +50˚C
- **Weight:** 1.41 lbs
- **Dimming:** Yes

### 100W Driver

<table>
<thead>
<tr>
<th>Remote Distance</th>
<th>Diameter</th>
<th>Max Run Length in Series</th>
<th>Max Run Lengths in Parallel</th>
</tr>
</thead>
<tbody>
<tr>
<td>7'-0&quot; (2.1m)</td>
<td>w/22 AWG (.644mm)</td>
<td>47' (14.33m)</td>
<td>87' (26.52m)</td>
</tr>
<tr>
<td>18'-0&quot; (5.5m)</td>
<td>w/18 AWG (1.02mm)</td>
<td>12' (3.66m)</td>
<td>23' (7.018m)</td>
</tr>
<tr>
<td>46'-0&quot; (14.0m)</td>
<td>w/14 AWG (1.63mm)</td>
<td>9' (2.74m)</td>
<td>17' (5.18m)</td>
</tr>
<tr>
<td>71'-0&quot; (21.6m)</td>
<td>w/12 AWG (2.05 mm)</td>
<td>30' (3.66m)</td>
<td>60' (18.23m)</td>
</tr>
</tbody>
</table>

| Line 1.5 - SO   | 8' (2.44m)  | 16' (4.88m)               |
| Line 1.5 - VHO (and color) | 6' (1.82m)  | 12' (3.66m)               |
| Line 2.0 - SO   | 26' (7.92m) | 26' (7.92m)               |
| Line 2.0 - HO   | 17' (5.18m) | 17' (5.18m)               |
| Line 2.0 - VHO  | 12' (3.66m) | 12' (3.66m)               |
| Line 2.0 - V2HO / B / G / A | 8' (2.44m)  | 8' (2.44m)                |
| Line 2.0 - R    | 6' (1.82m)  | 6' (1.82m)                |
12x6x4 Enclosure

Enclosure Construction
Enclosure and cover are fabricated from code 16 gauge steel. Enclosure body has mounting holes on the back and are available with or without knock outs on the sides, top and bottom ends. Cover is secured to the body with plated hex head combo screws, and has keyhole slots for easy removal without removing screws.

Enclosure Industry Standards
- UL 50 Listed, Type 1
- CSA C22.2 No. 40 certified, Type 1
- Conforms to NEMA standard for Type 1
- IEC 60529, IP30

*One driver enclosure can hold one 20W or 100W driver and one dimming module.

Conduit Sizes

<table>
<thead>
<tr>
<th>Conduit Sizes</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>D</td>
<td>¾-1</td>
</tr>
<tr>
<td>E</td>
<td>½-¾</td>
</tr>
<tr>
<td>F</td>
<td>1-1¼</td>
</tr>
<tr>
<td>G</td>
<td>½-¾</td>
</tr>
<tr>
<td>H</td>
<td>¾-1</td>
</tr>
</tbody>
</table>

Note: Dimensions are in inches. Millimeters are for reference only. Data subject to change without notice.