Constant Voltage LED Driver

Model Number
AC-A25VD24H1.04

Input Voltage: 120-277V
Input Frequency: 50/60Hz
Side Mount/Leads

**ELECTRICAL SPECIFICATIONS:**

<table>
<thead>
<tr>
<th>Output Power</th>
<th>Input Current</th>
<th>Minimum PF (full load)</th>
<th>Max. THD (full load)</th>
<th>Output Voltage</th>
<th>Output Current</th>
<th>T case Maximum</th>
<th>Efficiency Up To</th>
<th>Dimming Protocol</th>
<th>Dimming Range</th>
<th>IP Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>25W</td>
<td>0.26A @ 120V</td>
<td>&gt;0.95</td>
<td>&lt;10%</td>
<td>24V ±5%</td>
<td>0.104 to 1.04A</td>
<td>90°C</td>
<td>-40°C</td>
<td>82%</td>
<td>0 to 10V</td>
<td>10 to 100%</td>
</tr>
</tbody>
</table>

**WIRING:**

```
<table>
<thead>
<tr>
<th>INPUT</th>
<th>OUTPUT</th>
</tr>
</thead>
<tbody>
<tr>
<td>BLACK (LINE)</td>
<td>+</td>
</tr>
<tr>
<td>LED DRIVER</td>
<td>-</td>
</tr>
<tr>
<td>PURPLE</td>
<td>V= 0-10V DIMMER</td>
</tr>
<tr>
<td>GRAY</td>
<td>V= 0-10V</td>
</tr>
<tr>
<td>RED</td>
<td>0</td>
</tr>
<tr>
<td>WHITE (NEUTRAL)</td>
<td>10V</td>
</tr>
</tbody>
</table>
```

**PHYSICAL:**

- **Dimensions**
  - Length: 9.5”
  - Width: 1.7”
  - Height: 1.14”
  - Mounting Length: 8.9”
  - Mounting Hole Distance: 1.0”
  - Mounting Hole Diameter: .20”
  - Weight: 1.32 lbs.
  - Case Qty.: 30 pcs.

**SAFETY:**

- UL and cUL Recognized
- UL1310 Class 2
- UL Outdoor Type I
- Class A sound rating
- Overload Protection
- Open/Short Circuit Protection
- LED driver has a life expectancy of 50,000 hours at Tcase of ≤75°C
- LED driver has a life expectancy of 100,000 hours at Tcase of ≤65°C
- Warranty: 5 yrs based on max case temp of <75°C; 3 yrs based on max case temp of 90°C*
- Input/Output Isolation
- FCC Title 47 CFR Part 15
- Surge Protection (3 KV)
- LED driver cases should be grounded

**INSTALLATION:**

- LED drivers shall be installed inside electrical enclosures
- 18 AWG 600V/105°C tinned strand copper lead-wires are required for installation

**Remote Mounting (Max)**

<table>
<thead>
<tr>
<th>10AWG</th>
<th>175m (574.1’)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12AWG</td>
<td>110m (360.9’)</td>
</tr>
<tr>
<td>14AWG</td>
<td>69m (226.4’)</td>
</tr>
<tr>
<td>16AWG</td>
<td>43m (141.1’)</td>
</tr>
<tr>
<td>18AWG</td>
<td>27m (88.6’)</td>
</tr>
</tbody>
</table>

**Lead Lengths**

- Black: 5.9”
- Blue: 5.9”
- Purple: 7.1”
- White: 5.9”
- Red: 5.9”
- Gray: 7.1”

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Data is based upon tests performed by AC Electronics in a controlled environment and representative performance. Actual performance can vary depending on operating conditions. Specifications are subject to change without notice. All specifications are nominal unless otherwise noted.
Performance Characteristics

Life Time v.s. Case Temperature Curve

Derating Curve 120Vac & 277Vac

Outside Driver Ambient Temperature (°C)

Load (%)

Life Time (kHours)

Case Temperature Curve (°C)
Performance Characteristics

Efficiency v.s. Load

Power Factor v.s. Load

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Performance Characteristics

Output Current v.s. Dimming

Output Current v.s. Resistance