**WIRING:**

- **Class P**
- **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**

**SAFETY:**

- **Class P Listed**
- **Programmable, Digital, Wide-Range Adjustable Current & Dimming**
- **FCC Title 47 CFR Part 15**
- **Surge Protection (3 KV)**
- **Dim-To-Off Programming Option**
  - **Active:** Code = 78 05 01 01
  - **Inactive:** Code = 78 05 00 01

**PHYSICAL:**

- **Model Number:** AC-50CD1.4APNZ
- **Input Voltage:** 120-277V
- **Input Frequency:** 50/60Hz
- **Side Leads**
- **Dimming speed ≤ 0.7 Sec@0.7A ≤ Iout ≤ 1.4A**
- **< 1 Sec. Start time/Starting with batch code AKT.48**
- **Dim-to-1% (Default)**

**SAFETY:**

- **Class P**
- **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**
- **Input/Output Isolation**
- **FCC Title 47 CFR Part 15**
- **Surge Protection (3 KV)**
- **Dim-To-Off Programming Option**
  - **Active:** Code = 78 05 01 01
  - **Inactive:** Code = 78 05 00 01

**INSTALLATION:**

- **Max Remote installation distance is 18 ft**
- **LED driver cases should be grounded**
- **18 AWG 600V/105C tinned stranded copper lead-wires are required for installation**

**ELECTRICAL SPECIFICATIONS:**

<table>
<thead>
<tr>
<th>Output Power</th>
<th>Input Power</th>
<th>Input Current</th>
<th>Min PF (full load)</th>
<th>Max THD (full load)</th>
<th>Output Voltage</th>
<th>Output Current</th>
<th>T case Max</th>
<th>Min. Starting Temp</th>
<th>Efficiency Up To</th>
<th>Dimming Protocol</th>
<th>Dimming Range</th>
<th>IP Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>50W</td>
<td>60W</td>
<td>0.5A@120V</td>
<td>&gt;0.90</td>
<td>&lt;20</td>
<td>15-55V</td>
<td>400mA-1400mA</td>
<td>90°C</td>
<td>-40°C</td>
<td>85%</td>
<td>0 to 10V</td>
<td>1 to 100%</td>
<td>64</td>
</tr>
<tr>
<td>60W</td>
<td>70W</td>
<td>0.22A@277V</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**PHYSICAL:**

**Dimensions:**

<table>
<thead>
<tr>
<th>Length</th>
<th>Width</th>
<th>Height</th>
<th>Mounting</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.23&quot;</td>
<td>2.48&quot;</td>
<td>1.18&quot;</td>
<td>4.84&quot;</td>
</tr>
</tbody>
</table>

**Taut/Cref Max Value (˚C):**

<table>
<thead>
<tr>
<th>Taut/Cref Max Value (˚C)</th>
<th>Tc/Tref Value (˚C)</th>
<th>Ta/Value (˚C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>90</td>
<td>58.2</td>
<td>40</td>
</tr>
</tbody>
</table>

**LEAD LENGTHS:**

- **Black:** 5.9"
- **Blue:** 5.9"
- **White:** 5.9"
- **Red:** 5.9"
- **Purple:** 5.9"
- **Gray:** 5.9"

**INSTALLATION:**

- **Max Remote installation distance is 18 ft**
- **LED driver cases should be grounded**
- **18 AWG 600V/105C tinned stranded copper lead-wires are required for installation**

**CONSTANT CURRENT LED DRIVER**

**Model Number:** AC-50CD1.4APNZ

**Input Voltage:** 120-277V

**Input Frequency:** 50/60Hz

**Side Leads**

- **Dimming speed ≤ 0.7 Sec@0.7A ≤ Iout ≤ 1.4A**
- **< 1 Sec. Start time/Starting with batch code AKT.48**
- **Dim-to-1% (Default)**

**LED DRIVER INPUT OUTPUT LINE NEUTRAL**

**Output Power:**

- **Dimensions:**
  - **Length:** 5.23"
  - **Width:** 2.48"
  - **Height:** 1.18"
  - **Mounting:** 4.84"

**IP Rating:**

- **50W:** 60W
- **50W:** 60W
- **0.5A@120V 0.22A@277V**
- **>0.90 <20 15-55V 400mA-1400mA**
- **90°C -40°C 85% 0 to 10V 1 to 100% 64**

**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.**

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Revised 02/23/2018
**Phone Instructions**

First you must have an Android device (phone/tablet) with NFC-V app downloaded. Open App; then place the device on top of the driver matching up sensors until it syncs up.

Basic format:
- Write
- Insert the appropriate code from chart above
- Write

Successfully written will appear:
- To Check: Read
- Read
- Shows you the Block - 00 00 00 00
- This is where the code you input appears

### IOUT/VOUT CURVE

*Use with [NFC-V Reader](http://www.aceleds.com/products-programmable.php)*

Performance Characteristics

Life Time v.s. Case Temperature Curve

Life Time (kHours)

Case Temperature Curve (°C)

Derating Curve 120Vac & 277Vac

Load (%)

Outside Driver Ambient Temperature (°C)

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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

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