Features & Benefits

- Constant current design
- Compact design is easily configured into existing and new luminaires
- Over-current, over-voltage and short circuit protection
- Can be used to meet the requirements of CA Title 24, ENERGY STAR® and other green initiatives

Required Brillia LED Modules

PX Series, BF Series ............................................................................................................ See Brillia LED module specifications

Ratings and Performance Specifications

Nominal AC Power Consumption @ Nominal Input Voltage ..........-DIM-1 = 6.4W, -90240 = 4.2W, -LV = 4.7W
Nominal Input Voltage ........................................................................................................... 12-15VAC/DC, 120VAC, 90-240VAC
Nominal Power Factor (AI1250-DIM-1 only), ................................................................. >0.7
Maximum Operating Range Ambient Temperature (Ta) ...................................................... -20° to 50°C
Maximum Driver Case Temperature (@ designated temperature measurement point, TMP)........ +60°C
Maximum Weight .................................................................................................................. 55 grams

Safety/Compliance

UL Class 2 Recognized Component E256806 (dry location)
RoHs Compliant
Output operating frequency ≥ 120Hz
Meets FCC requirements for consumer use
Class A sound rating
Complies with IEEE C.62.41-1991 Class A operation

Application Notes

1. The proper LED Driver Case Temperature at the designated temperature measurement point (TMP) is critical to ensure proper performance and long life. Careful design consideration required for factors such as ambient conditions (for example weather and surrounding atmosphere inside exterior luminaires) and proximity to other heat sources such as LED modules and other heat generating LED devices.

2. Abnormal operating conditions such as elevated operating temperatures can be expected to negatively impact lumen output, product lifetime, or product performance.

3. This “sandwich style” LED driver makes electrical and mechanical connection with Brillia LED modules by 4-40 x 3/8” truss head screws and isolation bushings. The screw heads must be a minimum diameter of 0.250” in order to seat properly on the module and not damage the contacts. Brillia recommends the use of an aluminum or equivalent heatsink “sandwiched” between the LED module and driver with a nominal thickness of 0.080”. For thicker heatsinks, longer screws can be used, however caution must be used not to bottom-out and damage the internal PC board of the driver. The isolation bushings must be McMaster Carr P/N 91145A129 or Brillia P/N PC61-0002 or equivalent dimensions and material.

4. Patent pending AC dimming works with most 3-wire electronic dimmers such as Lutron® Diva and Maestro, see www.BrilliaLED.com for application notes, wiring diagrams and other compatible dimmers. For technical support or application assistance, please contact Brillia.
Physical Dimensions

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Nominal Input Voltage (VAC)</th>
<th>Nominal DC Current (mA DC)</th>
<th>Sample Values Efficiency (% at Max Load)</th>
<th>Nominal Input Voltage Dimmable</th>
</tr>
</thead>
<tbody>
<tr>
<td>AI1250-90240</td>
<td>90-240</td>
<td>310mA</td>
<td>75</td>
<td>No</td>
</tr>
<tr>
<td>AI1250-DIM-1</td>
<td>120</td>
<td>350mA</td>
<td>68</td>
<td>Yes</td>
</tr>
<tr>
<td>AI1250-LV</td>
<td>12-15VAC/DC</td>
<td>up to 430mA</td>
<td>up to 75</td>
<td>No</td>
</tr>
</tbody>
</table>

(1) Utilizing 3-wire electronic dimmer, see www.BrilliaLED.com for compatible dimmers.

Options
No additional options available............................................................... for questions, please email sales@brillialed.com

Packaging
Drivers are labeled with SKU and lot traceability information and shipped in packaging designed to protect the drivers from damage during transit.

Warranty
3-Year limited warranty in accordance with Brillia published warranty at www.brilliaLED.com. Product must be used with compatible Brillia components (modules, drivers, engines and/or accessories) and no maximum ratings (such as TMP) shall be exceeded during any expected operating conditions of the system.

Additional Information
Standard integral DIP switch with variable settings and smart polarity quick release connector. (12-15VAC/DC model only).