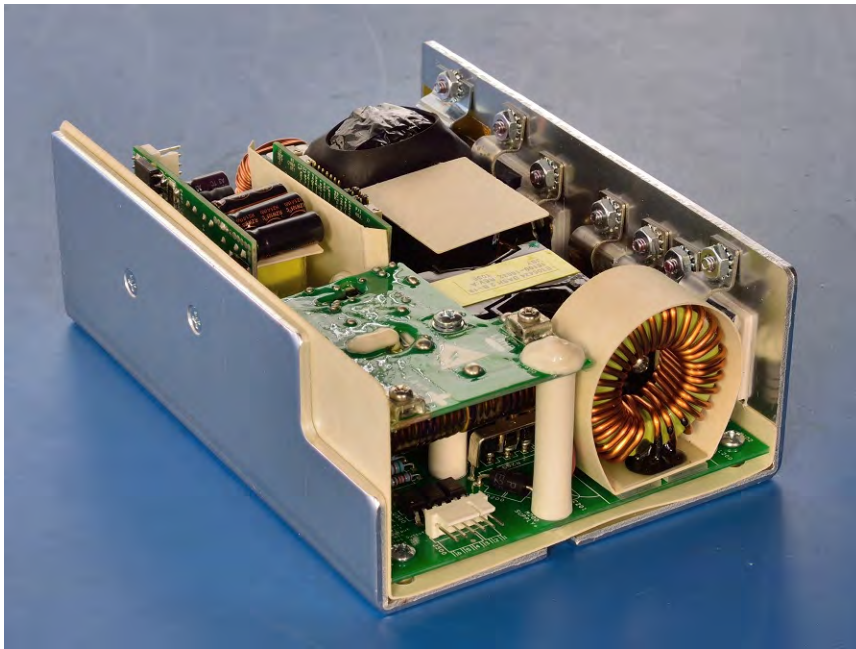




## **CEP301AHG, CEP301BHG, CEP301CHG** **300 Watt Mercury Arc Lamp Power Supplies**



### **Key Features**

- Line input 100 – 240VAC  $\pm$  10%, 50–60Hz, 5.3 Arms max.
- Environmental: 0°C to 50°C operating
- Weight: 2.7lbs (1.2kg)
- Dimensions: 6.50" x 4.55" x 2.25" (165mm x 116mm x 57mm)
- Includes lamp igniter:  $\pm$  15kV bilateral ignition pulse
- Ignition time out; approx. 6 seconds. Can be disabled via jumper configuration.
- Igniter Life > 80,000 strikes
- High reliability

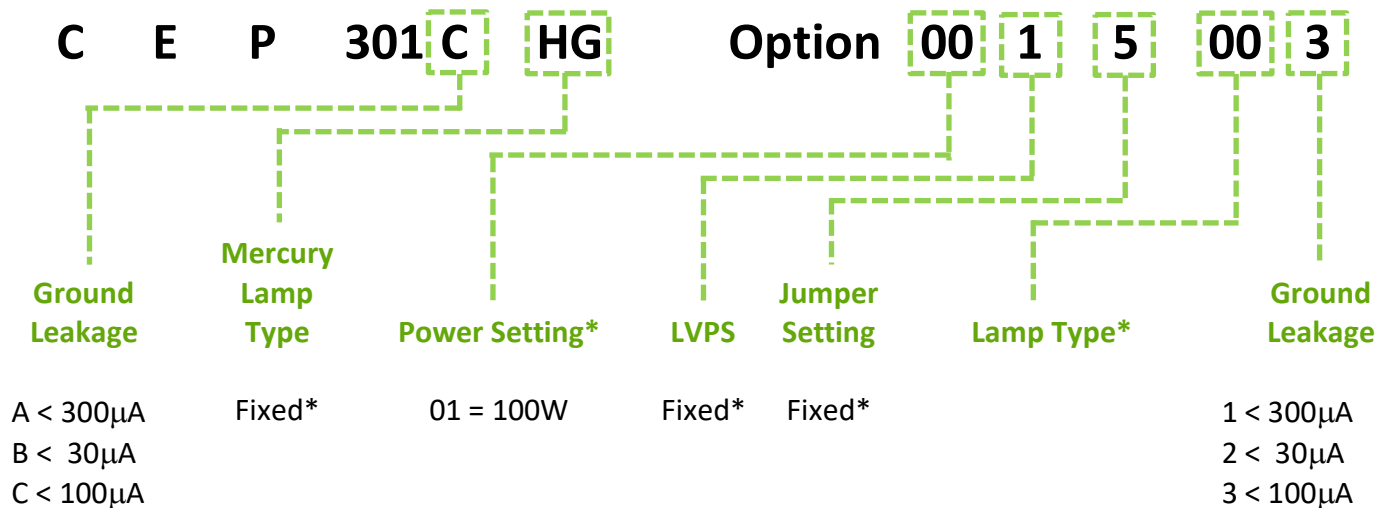
### **Applications**

- For OEM use / integration into parent system. Not intended for standalone or bench top operation.
- Intended for use by electrical technicians / engineer only after reading operation manual.
- For use with Mercury arc lamps

The **CEP301** power supply is designed to run Mercury arc lamps (in a constant-power mode (default) or constant current mode (by factory request only)). The output power is adjustable from 100 Watts (default) or from 100 to 300 Watts (by factory request only) in power mode with a built-in potentiometer. EMI line-filtering is built-in to the unit. The supply includes an isolated +24V output for powering external fans or electronics and an isolated +5V for powering CMOS level circuitry. Active Power Factor Correction meets EMC limits for harmonic current emissions, and limitations of voltage fluctuations and flicker.

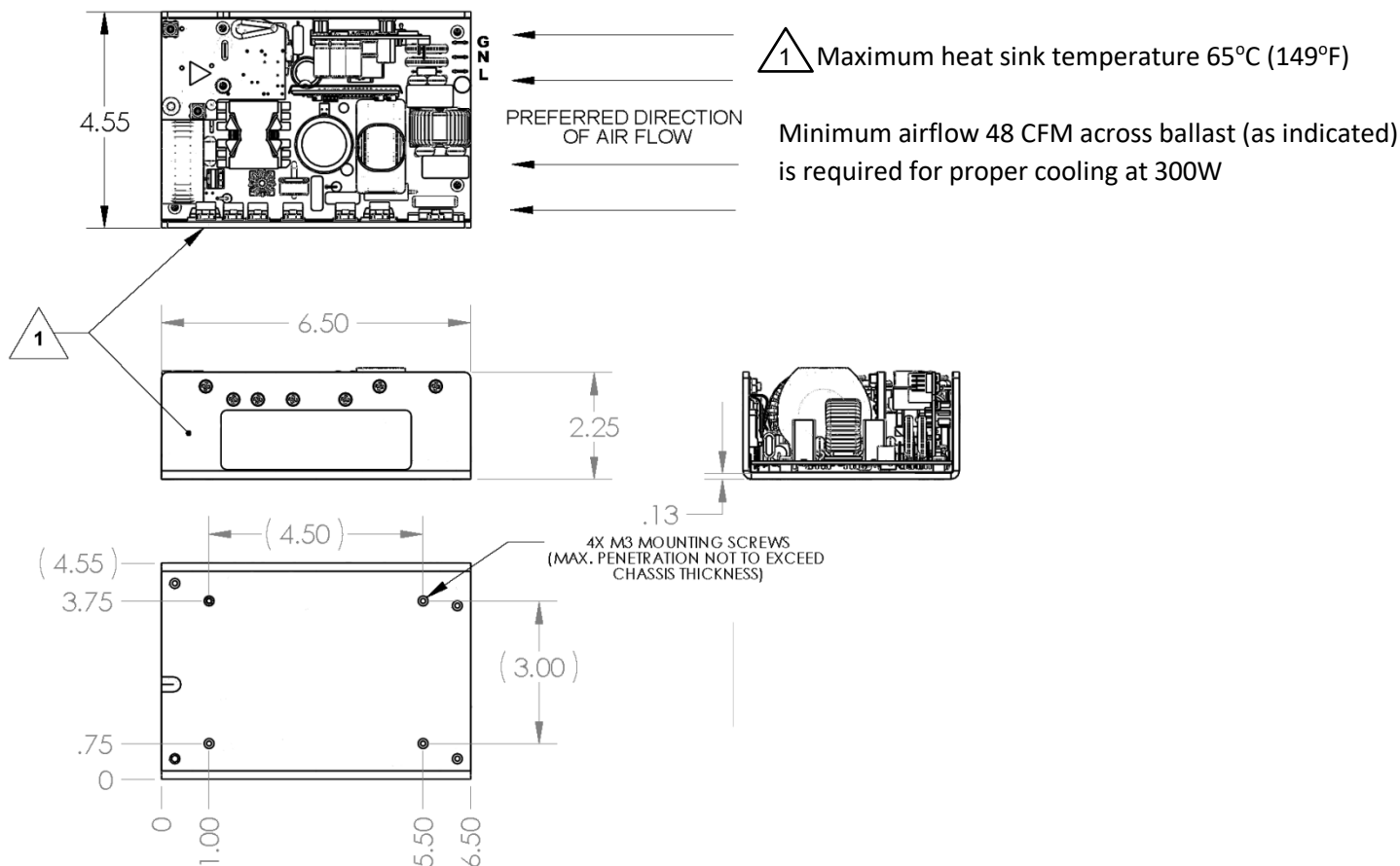
## 300 Watt Mercury Arc Lamp Power Supplies

### Options / Part Numbering



\* Additional options may be available. Special order from factory required.

### Dimensional Information



Specifications

<b>Line input voltage</b>	Line input 100 – 240VAC $\pm$ 10%, 50–60Hz, 5.3 Arms max.
<b>Output power</b>	100 – 300 Watts, constant power
<b>Output regulation</b>	Output power to be held within $\pm$ 5%
<b>Output voltage compliance</b>	10 to 40 V operating
<b>Output current</b>	4.0 to 10.0 ADC
<b>Output ripple</b>	< 5% @ 300W (measured in a DC to 20MHz bandwidth)
<b>Efficiency</b>	80% at 300 W output, 120VAC input
<b>Igniter</b>	<p><math>\pm</math> 15kV nominal (<math>\pm</math> 3kV)</p> <p>&gt; 110 V during boost (pre-ignition) cycle</p> <p>Minimum repetition rate is 4 strikes / second (<math>\pm</math> 2 strikes)</p> <p>Ignition timer: pulses continue for 6 <math>\pm</math> 1 seconds<sup>1</sup> (feature may be disabled via jumper).</p> <p>Igniter Life &gt; 80,000 strikes</p> <p><sup>1</sup>Ignition Timer is a limited feature which detects lamps that do not start at all. See OM12-1 for full description of this feature</p>
<b>Auxiliary Outputs</b>	<p>+24VDC <math>\pm</math> 5%, 1.25A max. (SELV rated)</p> <p>+5VDC <math>\pm</math> 5%, 0.5A max. (SELV rated)</p>
<b>Signal I/O</b>	<p>Optically isolated connector (SELV rated):</p> <ul style="list-style-type: none"> <li>• Remote enable input</li> <li>• Lamp ON indicator</li> <li>• Lamp over / under voltage indicator</li> </ul>
<b>Thermal Protection</b>	<p>Ballast is disabled when heat-sink temperature exceeds 90°C</p> <p>Unit will restart upon cool down and power reset</p>
<b>Ground Leakage</b>	<p>CEP301AHG &lt; 300<math>\mu</math>A @120Vac</p> <p>CEP301BHG &lt; 30<math>\mu</math>A @120Vac</p> <p>CEP301CHG &lt; 100<math>\mu</math>A @120Vac</p>
<b>Regulatory compliance</b>	<p>Approved to UL 60601-1 3rd Edition (excluding EMC and Biocompatibility)</p> <p>UL File No. E177225</p> <p>Complies with EN55011 Class B Emissions with appropriate system design</p> <p>Meets EN 61000-3-2 and EN61000-3-3</p> <p>CE-marked</p>



NOTE: All values are nominal; specifications subject to change without notice.

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