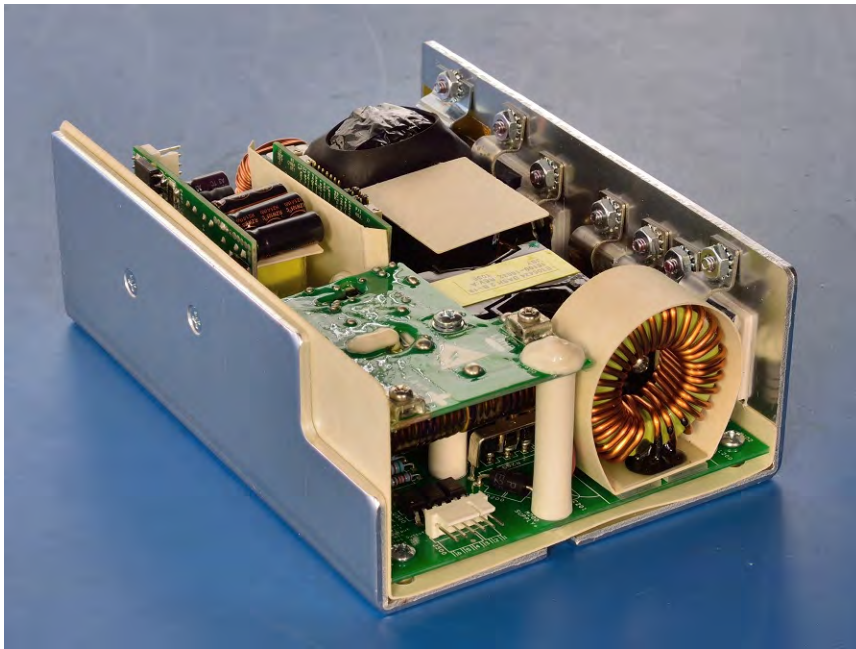




CEP301 Series 300 Watt Xenon Power Supplies



The **CEP301** power supply family is designed to run Cermax™ xenon arc lamps (default) or other xenon, mercury and metal halide lamps (by factory request only) in a constant-power mode (default) or constant current mode (by factory request only). The output power is adjustable from 100 to 300 Watts in power mode with a built-in potentiometer. EMI line-filtering is built-in to the unit. The supply includes an isolated +12V 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.

Key Features

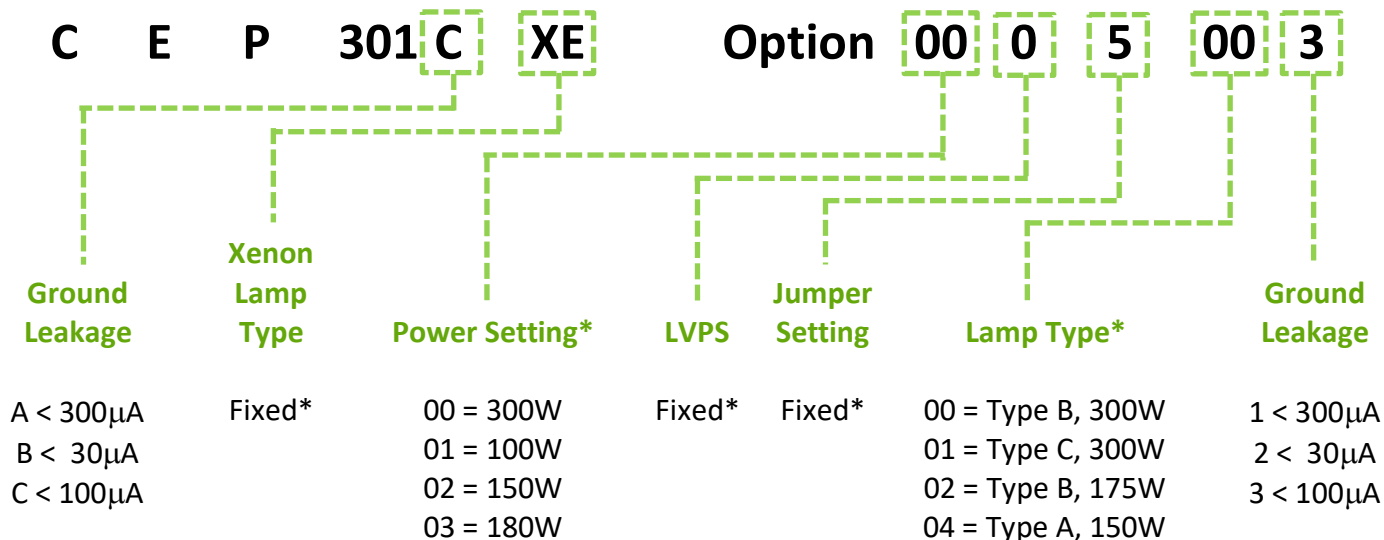
- Line input 100 – 240VAC \pm 10%, 50–60Hz, 5.3 Arms max.
- Environmental: 0°C to 50°C operating
- Weight: 2.7lbs (1.2kg)
- Dimensions: 6.50" x 4.55" x 2.25" (165mm x 116mm x 57mm)
- Includes lamp igniter: \pm 15kV bilateral ignition pulse
- Ignition time out; approx. 6 seconds. Can be disabled via jumper 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 Cermax™ xenon lamps
- Can be configured for use with several lamp types: quartz xenon, mercury, metal halide (may require special order).
- Medical Applications: Surgical Head Lamp, Endoscopic Imaging Illuminators

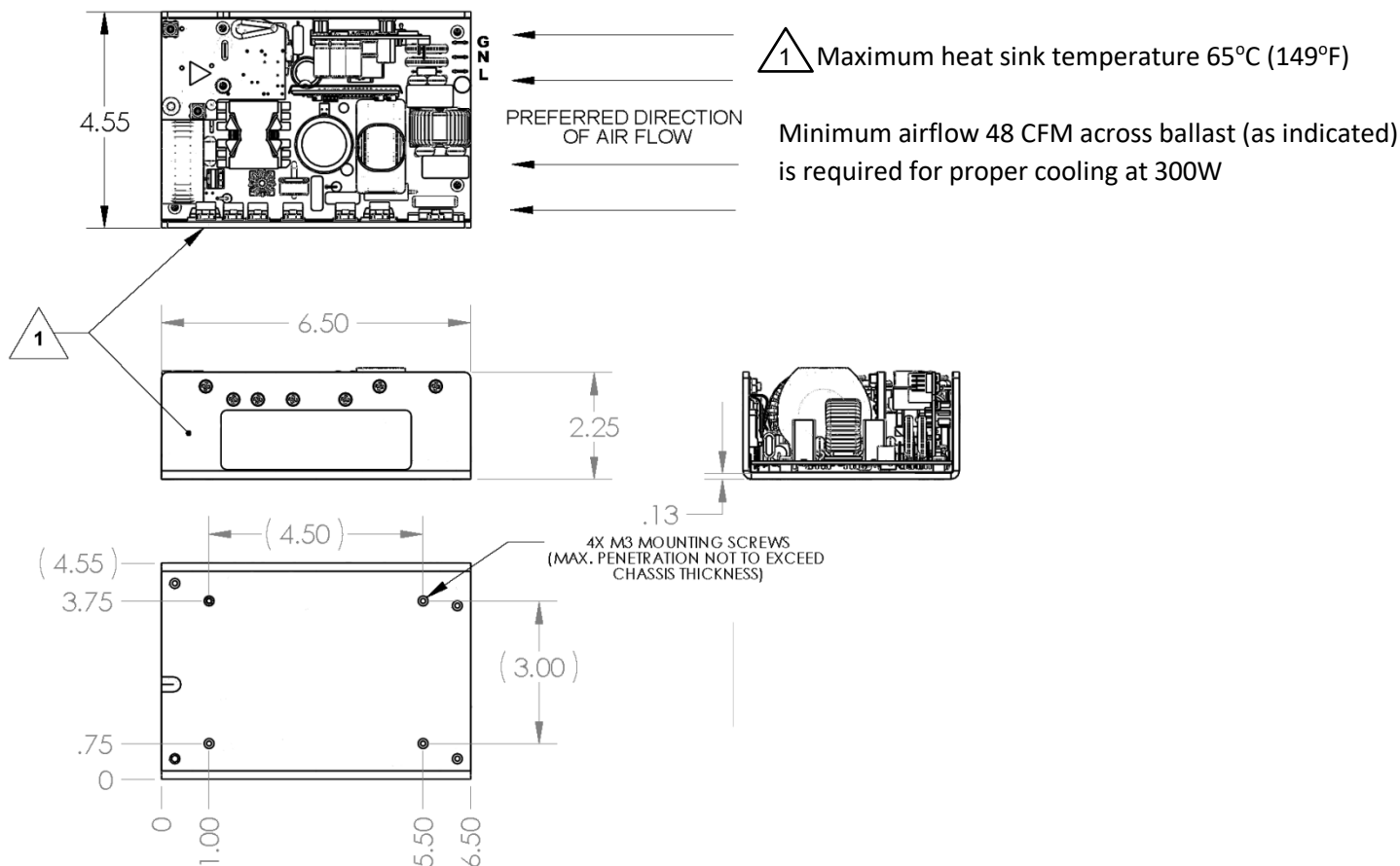
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Options / Part Numbering



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

Dimensional Information



Specifications

Line input voltage	Line input 100 – 240VAC \pm 10%, 50–60Hz, 5.3 Arms max.
Output power	100 – 300 Watts, constant power
Output regulation	Output power to be held within \pm 5%
Output voltage compliance	10 to 25 V operating
Output current	9.0 to 22.0 ADC
Output ripple	< 5% @ 300W (measured in a DC to 20MHz bandwidth)
Efficiency	80% at 300 W output, 120VAC input
Igniter	<p>\pm 15kV nominal (\pm 3kV)</p> <p>> 110 V during boost (pre-ignition) cycle</p> <p>Minimum repetition rate is 4 strikes / second (\pm 2 strikes)</p> <p>Ignition timer: pulses continue for 6 \pm 1 seconds¹ (feature may be disabled via jumper).</p> <p>Igniter Life > 80,000 strikes</p> <p>¹Ignition Timer is a limited feature which detects lamps that do not start at all. See OM12-1 for full description of this feature</p>
Auxiliary Outputs	<p>+12VDC \pm 5%, 2.5A max. (SELV rated)</p> <p>+5VDC \pm 5%, 0.5A max. (SELV rated)</p>
Signal I/O	<p>Optically isolated connector (SELV rated):</p> <ul style="list-style-type: none"> • Remote enable input • Lamp ON indicator • Lamp over / under voltage indicator
Thermal Protection	<p>Ballast is disabled when heat-sink temperature exceeds 90°C</p> <p>Unit will restart upon cool down and power reset</p>
Ground Leakage	<p>CEP301AXE < 300μA @120Vac</p> <p>CEP301BXE < 30μA @120Vac</p> <p>CEP301CXE < 100μA @120Vac</p>
Regulatory compliance	<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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