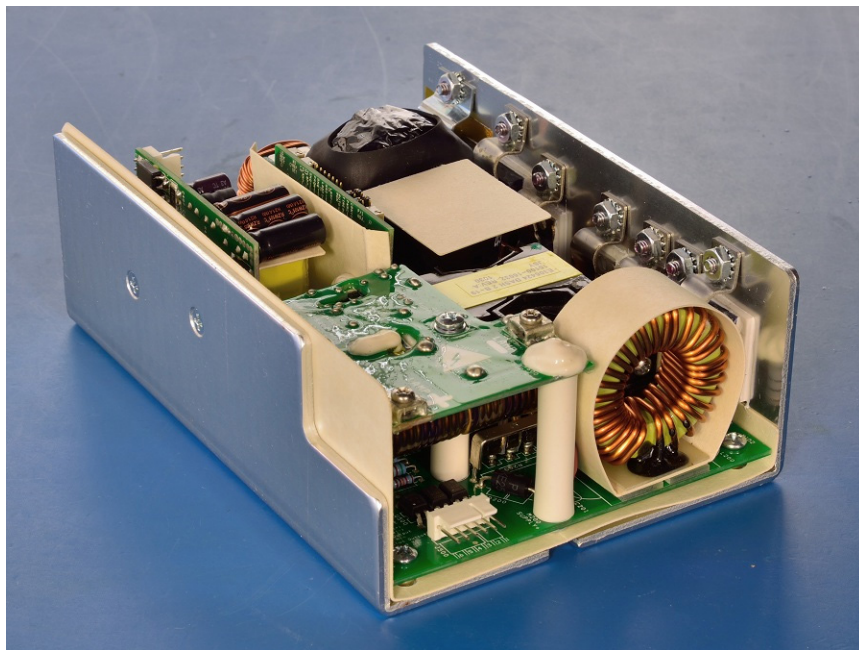


CEP301 Series 300 Watt Xenon Power Supplies

CERMAX



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 75 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

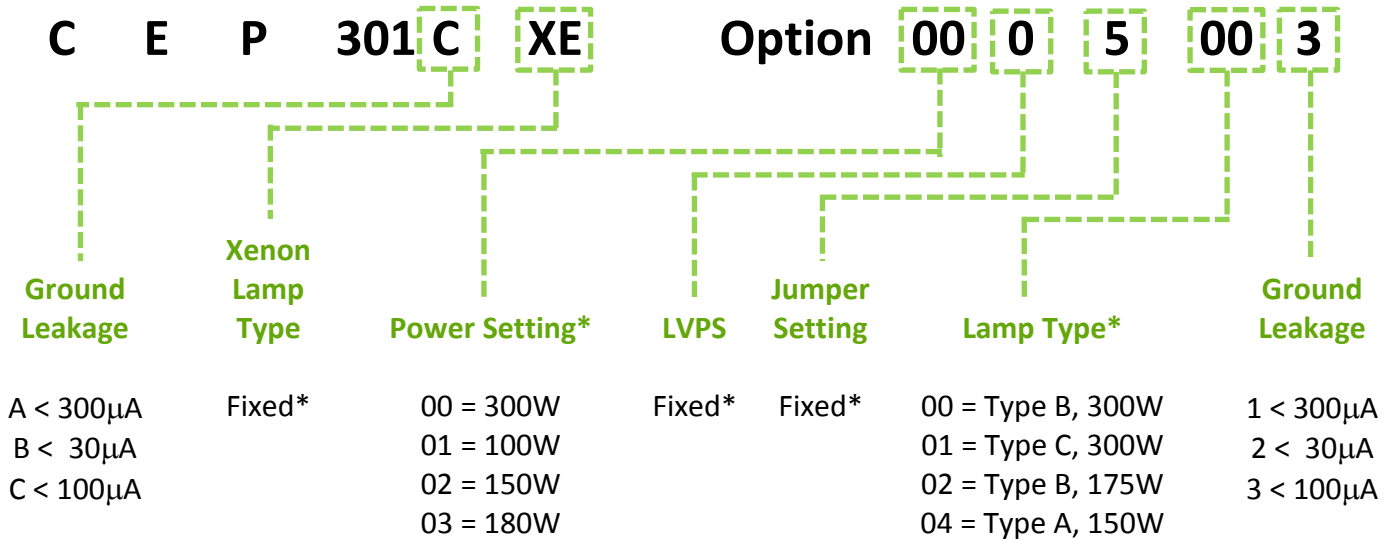
- Line input 100 – 240VAC \pm 10%, 50–60Hz, 5.3 Arms max.
- Environmental: 0°C to 50°C operating
- Weight: 2.7lbs (1.2kg)
- Dimensions: 6.50" x 4.55" x 2.55" (165mm x 116mm x 57mm)
- Includes lamp igniter: \pm 15kV bilateral ignition pulse
- Ignition time out; approx. 6 seconds. Can be disabled via jumper 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

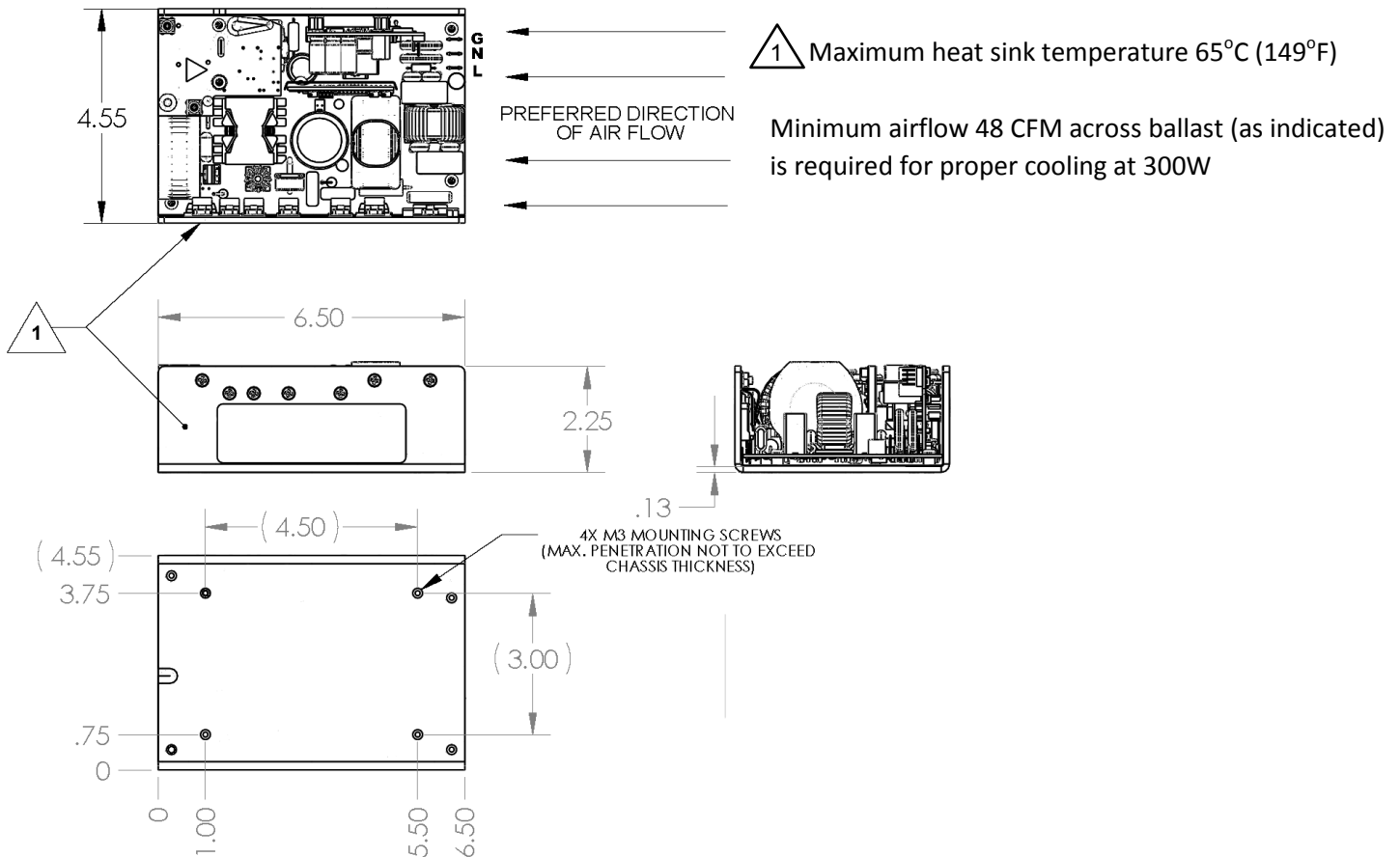
300 Watt Xenon Power Supplies

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	75 – 300 Watts, constant power
Output regulation	Output power to be held within \pm 5%
Output voltage compliance	10 to 25 V operating
Output current	4.0 to 22.0 ADC
Output ripple	< 5% @ 300W (measured in a DC to 20MHz bandwidth)
Efficiency	80% at 300 W output, 120VAC input
Igniter	\pm 15kV nominal (\pm 3kV) > 110 V during boost (pre-ignition) cycle Minimum repetition rate is 6 strikes / second (\pm 2 strikes) Ignition pulses will continue for 6 \pm 1 seconds (this feature may be disabled via jumper). Igniter Life > 80,000 strikes
Auxiliary Outputs	+12VDC \pm 5%, 2.5A max. (SELV rated) +5VDC \pm 5%, 0.5A max. (SELV rated)
Signal I/O	Optically isolated connector (SELV rated): <ul style="list-style-type: none"> • Remote enable input • Lamp ON indicator • Lamp over / under voltage indicator
Thermal Protection	Ballast is disabled when heat-sink temperature exceeds 90°C. Unit will automatically restart upon cool down
Ground Leakage	CEP301AXE < 300 μ A CEP301BXE < 30 μ A CEP301CXE < 100 μ A
Regulatory compliance	Approved to UL60601/IEC60601, 2nd & 3rd Edition (E177225) Complies with EN55011 Class B Emissions Meets EN 61000-3-2 and EN61000-3-3 CE-marked



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

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