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**ISO 9001:2000**  
**ISO 13485:2003**  
**REGISTERED**

## **CE105AXE, CE105BXE, and CE105CXE** **Power Supply Specification**

The CE105 power supply is designed to run xenon arc lamps in a constant-current mode. The supply is designed to operate xenon arc-lamps in the 100 watt class, including the Cermax 75W and the XBO 100W. The output current is adjustable from 6.5 to 9.0 Amps via a potentiometer on the circuit board. EMI line-filtering is built-in to the unit. The CE180BXE is the same as the A-model except it does not have Y-capacitors in the line filter section. The CE180CXE has smaller Y-capacitors to meet the 100  $\mu$ A leakage requirement of many U.S. hospitals.

**Output power:** 62 - 144 Watts, constant current

**Output voltage compliance:** 9.5 to 16.0 V operating, >110 VDC during ignition.

**Output regulation:** output current held to within +/- 5% over all input, output, and environmental conditions.



**Output current:** 6.5 to 9.0 Adc

**Output ripple:** <0.4 Ap-p \*

**Efficiency:** >72% at 144 W output, 120 VAC input

**Thermal protection:** ballast is disabled when temperature exceeds 90 deg C. Unit will automatically restart after cooling down.

**Auxiliary output (non-isolated):** +12V fan power, 650 mA max.  
12.0V to 12.8V at 250mA load.

**Optically Isolated Status & Control Connector (UL-rated circuit)**

- Remote Enable
- Lamp Lit Status
- Remote Lamp Intensity Control

**Ground Leakage:**

AXE: <300  $\mu$ A at 136 VAC, <500  $\mu$ A at 265 VAC

BXE: <10  $\mu$ A at all input voltages

CXE: <100  $\mu$ A at 136 VAC, <200  $\mu$ A at 265 VAC

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**Regulatory Compliance:** UL and CSA listed component (UL2601). Complies with EN55011, Class B, Group 1.

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**Line Input:** 100 - 240 VAC, +/- 10%, 47 - 63 Hz, 2.1 Arms max.

**Input Surge Current:** <30 Amps peak at turn-on, for all input voltages.

**Environmental:** 0 deg C to 45 deg C operating.

**Altitude:** -1000 ft. to 12,000 ft. MSL.

**Weight:** 2.5 lbs (1.14 Kg).

**Dimensions:** 6.00" x 4.15", 2.80" tall (152mm x 105mm, 71mm tall).

**Ignitor:** 25 - 30 KV ignition spike. Negative-side ignition.

Minimum repetition rate is 0.8 strikes/second at 90 VAC. Typical repetition rate is 1.2 strikes/second (120 VAC). Ignition pulses will continue until lamp ignites.

\* ripple is measured in a DC to 20 MHz bandwidth.

Specifications subject to change without notice.