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ISO 9001:2000
ISO 13485:2003
REGISTERED

CE105AHX, CE105BHX, and CE105CHX
Xenon Power Supply Specification

The CE105 power supply is designed to run xenon arc lamps in a constant-current mode. The output current is adjustable from 5.0 to 8.0 Amps via a potentiometer on the circuit board. EMI line-filtering is built-in to the unit. The CE105BXE is the same as the A-model except it does not have Y-capacitors in the line filter section. The CE105CXE has smaller Y-capacitors to meet the 100 ~uA 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: 5.0 to 8.0 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 uA at 136 VAC, <500 uA at 265 VAC
 BXE: <10 uA at all input voltages
 CXE: <100 uA at 136 VAC, <200 uA at 265 VAC

Regulatory Compliance:

Approved to UL2601 (E177225). Complies with EN55011 Class B Emissions. CE-marked.



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.