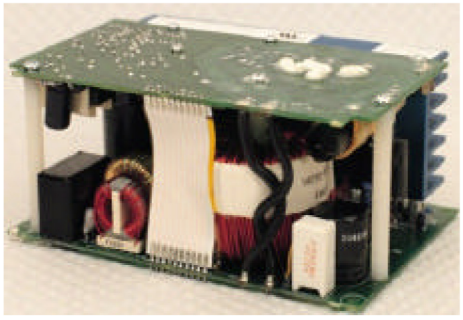
CE200AHX, CE200BHX, and CE200CHX

Mercury-Xenon Power Supply Specification

The CE200 power supply is designed to run mercury-xenon arc lamps in a constant-current mode. The output current is adjustable from 7.0 to 9.0 Amps via a potentiometer on the circuit board. EMI line-filtering is built-in to the unit. The CE200BHX is the same as the A-model except it does not have Y-capacitors in the line filter section. The CE200CHX has smaller Y-capacitors to meet the 100 uA leakage requirement of many U.S. hospitals. The unit includes over-power protection that protects the lamp if the lamp voltage becomes too high.

Output power: 175-220 Watts, constant current
Output voltage compliance: 12.0 to 28.0 V operating, >110 VDC during ignition.
Output regulation: output current held to within +/- 5% over all input, output, and environmental condition



Output current: 7.0 to 9.0 Adc
Output ripple: <0.6 Ap-p
Efficiency: >72% at 200 W output, 120 VAC input
Thermal protection: ballast is disabled when temperature exceeds 90 deg C. Unit will automatically restart after cooling down.
Isolated Auxiliary output (isolated): +12V fan power, 500 mA max.
Optically Isolated Status & Control Connector (UL-rated circuit)
- Remote Enable
- Lamp Lit Status

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

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

Line Input: 100 240 VAC, +/- 10%, 47 63 Hz, 4.1 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.