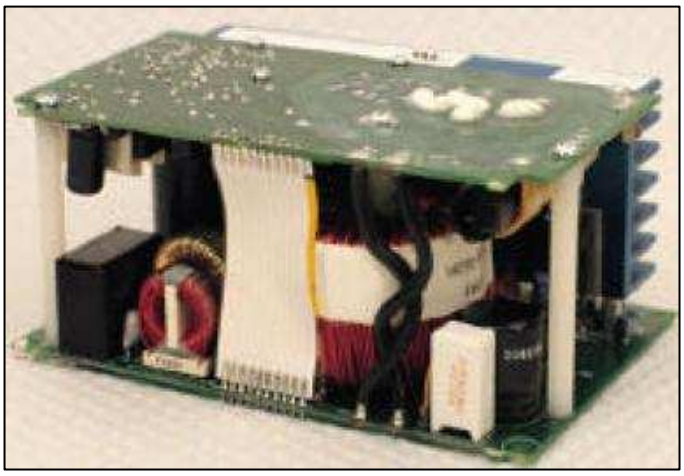
DATASHEET
Lighting Solutions

CE200AHX, CE200BHX, and CE200CHX

MERCURY-XENON POWER SUPPLY



The CE200AHX, CE200BHX, and CE200CHX power supplies are designed to run mercury-xenon arc lamps in a constant-current mode.

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 power supply is the same as the CE200AHX model except that it does not have Y-capacitors in the line filter section. The CE200CHX has smaller Y-capacitors to meet the 100 µA leakage requirement of many U.S. hospitals.

The unit includes over-power protection that protects the lamp if the lamp voltage becomes too high.

Key Features

- 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° C to 45° C operating.
- Altitude: -1,000 ft. to 12,000 ft. (-305 m to 3658 m) MSL.
- Weight: 2.5 lbs. (1.14 Kg).
- Dimensions: 6.0” x 4.15” x 2.80” tall (152mm x 105mm x 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).

EXCELITAS TECHNOLOGIES

Output power: 175 - 220 Watts, constant current

- **Output voltage compliance:** 12.0 to 28.0 V operating, >110 VDC during ignition.

Output regulation: output power held to within ± 5% over all input, output, and environmental conditions.

Output current: 7.0 to 9.0 Adc

Output ripple: <0.6 Ap-p*

Efficiency: >72% at 200 Watts output, 120 VAC input

Thermal protection: Ballast is disabled when heat-sink temperature exceeds 90°C. Unit will automatically restart after cooling down.

Isolated Auxiliary output (isolated): +12V fan power, 500 µA max.

Optically Isolated Status and Control Connector (UL-rated circuit):

- Remote enable
- Lamp lit status

Ground leakage:

- CE200AXE < 300 µA @136 VAC, <500 µA @ 65 VAC
- CE200BXE < 10 µA @ all input voltages
- CE200CXE < 100 µA @136 VAC, <200 µA at 265 VAC

Regulatory Compliance

- Approved to UL2601 (E177225).

Complies with EN55011 Class B Emissions.

- CE-marked.

About Excelitas Technologies

Excelitas Technologies is a global technology leader focused on delivering innovative, customized solutions to meet the lighting, detection and other high-performance technology needs of OEM customers.

From medical lighting to analytical instrumentation, clinical diagnostics, industrial, safety and security and aerospace and defense applications, Excelitas Technologies is committed to enabling our customers' success in their end-markets.

Excelitas Technologies has approximately 3,000 employees in North America, Europe and Asia, serving customers across the world.

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