



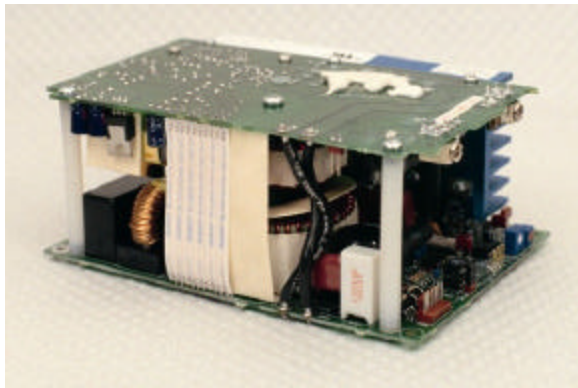
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**ISO 9001:2000**  
**ISO 13485:2003**  
**REGISTERED**

**Carsan Engineering, Inc.**  
**CE160AXE, CE160BXE, and CE160CXE**  
**Xenon Power Supply Specification**

The CE160 power supply is designed to run xenon arc lamps in a constant-power mode. The supply is designed to run the Osram XBO and Cermax family lamps. The output power has two levels: 130W and 220W. The unit is normally at 130W until the High Power remote input is asserted true. The unit then outputs 220W. This is useful for pulsed power applications. EMI line-filtering is built-in to the unit. The CE160BXE is the same as the A-model except it does not have Y-capacitors in the line filter section. The CE160CXE has smaller Y-capacitors to meet the 100  $\mu$ A leakage requirement of many U.S. hospitals.

**Output power:** 124-136 Watts, or 195-245 Watts, constant power  
**Output voltage compliance:** 12.0 to 17.0 V operating, >110 VDC during ignition.  
**Output regulation:** output power held to within +/- 5% over all input, output, and environmental conditions.



**Output current:** 9.0 to 22.0 Adc  
**Output ripple:** <0.7 Ap-p (low power), <1.0 Ap-p (high power)\*  
**Efficiency:** >70% at 220W 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 (UL-rated):** +12V fan power, 800 mA max.  
**Optically Isolated Status & Control Connector (UL-rated circuit)**

- Remote Enable
- Lamp Lit Status
- High/Low Power

**Ground Leakage:** AXE: <300  $\mu$ A  
 BXE: <10  $\mu$ A  
 CXE: <100  $\mu$ A

**Regulatory Compliance:**

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



**Line Input:** 100 - 240 VAC, +/- 10%, 47 - 63 Hz, 4.5 Arms max.  
**Environmental:** 0 deg C to 50 deg C operating.  
**Altitude:** -1000 ft. to 12,000 ft. MSL.  
**Weight:** 2.5 lbs (1.14 Kg).  
**Dimensions:** 6.50" x 4.65", 2.80" tall (165mm x 118mm, 71mm tall).

**Ignitor:**  
 25 KV ignition spike. Negative-side ignition.  
 Minimum repetition rate is 10 strikes/second at all input voltages. Ignition pulses will continue until lamp ignites.  
**Ignitor Life:** >500,000 strikes.

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

Specifications subject to change without notice.