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ISO 9001:2000
ISO 13485:2003
REGISTERED

Carsan Engineering, Inc.
CE184AXE, CE184BXE, and CE184CXE
Xenon Power Supply Specification

The CE184 power supply is designed to run xenon arc lamps in a constant-current mode. The supply is designed to operate 175-watt xenon arc lamps. The output current is adjustable from 10.0 to 15.0 Amps via a potentiometer on the circuit board. EMI line-filtering is built-in to the unit. The CE184BXE is the same as the A-model except it does not have Y-capacitors in the line filter section. The CE184CXE has smaller Y-capacitors to meet the 100 ~uA leakage requirement of many U.S. hospitals.

Output power: 110-224 Watts, constant current

Output voltage compliance: 11.0 to 17.0 V operating, >110 VDC during ignition.

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



Output current: 10.0 to 15.0 Adc

Output ripple: <0.7 Ap-p *

Efficiency: >72% at 200W 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): +12VDC +/-5% fan power, 650 mA max.

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

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

Ground Leakage: AXE: <300 uA
BXE: <10 uA
CXE: <100 uA

Regulatory Compliance: Medical approval to EN60601-1 (TÜV Mark). Complies with EN55011, Class B, Group 1.

Line Input: 100 - 240 VAC, 47 - 63 Hz, 4.6 Arms max.

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.