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ISO 9001:2000
ISO 13485:2003
REGISTERED

CEP100AXE, CEP100BXE, CEP100CXE
Xenon Power Supply Specification

The CEP100 power supply is designed to run xenon arc lamps in a constant-power mode. The output power is adjustable from 75 to 135 Watts via a potentiometer on the circuit board. Output power can also be controlled from an external voltage input. EMI line-filtering is built-in to the unit. The supply includes an isolated low voltage power supply with optional multiple outputs.

Output power: 75 - 135 Watts, constant power.

Output voltage compliance: 16.0 to 30.0 V operating.

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



Output current: 6.0 to 7.0 Adc

Low-frequency output ripple: <2.0%[†]

Broadband output ripple: <0.2 Ap-p*

Efficiency: >70% at 110 W output, 120 VAC input

Thermal protection: ballast is disabled when heatsink temperature exceeds 90 deg C. Unit will automatically restart after cooling down.

Isolated Auxiliary output (SELV-rated):

| OPTION | +12V,2.5A | +24V,1.0A | +5V,4.0A | -12V,0.2A |
|--------|-----------|-----------|----------|-----------|
| 000 | ✓ | x | x | x |
| 001 | ✓ | x | ✓ | x |
| 002 | ✓ | x | ✓ | ✓ |
| 100 | x | ✓ | x | x |
| 101 | x | ✓ | ✓ | x |

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

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

Ground Leakage:

| | |
|-----|--------|
| AXE | <300µA |
| BXE | <10µA |
| CXE | <100µA |

Regulatory Compliance: Medical Approval to EN60601-1 and TÜV Mark. Complies with EN55022. Meets EN 61000-3-2 and EN61000-3-3.

Line Input: 100 - 240 VAC, +/- 10%, 50/60 Hz, 3.2 Arms max.

Environmental: 0 deg C to 50 deg C operating.

Altitude: -1000 ft. to 12,000 ft. MSL.

Weight: 1.5 lbs (0.68 Kg).

Dimensions: 6.50" x 4.50", 1.65" tall (165mm x 114mm, 42mm tall).

Ignitor:

16 - 25 KV ignition spike, negative 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.

† Low frequency ripple is measured in a DC to 1 KHz bandwidth and stated as percent of DC output current.

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

Specifications subject to change without notice.