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ISO 9001:2000
ISO 13485:2003
REGISTERED

CEP300AHX, CEP300BHX, CEP300CHX **300W Mercury-Xenon Power Supply Specification**

The CEP300 power supply is designed to run mercury-xenon arc lamps in a constant-power mode. The output power is adjustable from 180 to 315 Watts with a built-in potentiometer. EMI line-filtering is built-in to the unit. The supply includes an isolated +12V output for powering external fans or electronics. The CEP300 power supply is designed to switch to constant current mode by removing two easily accessible shorting jumpers. Active Power Factor Correction to meet EMC limits for harmonic current emissions, and limitations of voltage fluctuations and flicker.

Output power: 180 - 315 Watts, constant power

Output voltage compliance: 12.0 to 30.0 V operating, >110 VDC during ignition.

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



Output current: 8.0 to 18.0 Adc

Output ripple: <5%*

Efficiency: >70% at 300 W 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 (SELV rated): +12.5VDC± 2%, 2.0 A max.

Optically Isolated Status & Control Connector (SELV rated):

- Remote enable
- Lamp lit status
- Linear-response remote intensity control
- Lamp over-voltage/under-voltage indicator.

Ground leakage: AHX <300µA
BHX <10µA
CHX <100µA

Regulatory Compliance:

Approved to UL2601 with CB scheme (E177225). Complies with EN55011 Class B Emissions. Meets EN 61000-3-2 and EN61000-3-3. CE-marked.



Line Input: 100 - 240 VAC, ± 10%, 50-60 Hz, 6.5 Arms max.

Environmental: 0 deg C to 40 deg C operating.

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

Weight: 2.7 lbs (1.2 Kg).

Dimensions: 6.50" x 4.65", 2.60" tall (165mm x 114mm, 66mm tall).

Ignitor:

25 KV ignition spike. Positive-side ignition.

Minimum repetition rate is 10 strikes/second at 90VAC.

Ignition pulses will continue for 6 ± 1 seconds. This feature may be disabled via jumper, in which case the ignition pulses will continue until the lamp ignites.

Ignitor Life: >100,000 strikes

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

Specifications subject to change without notice.