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ISO 9001:94
 Registered

**CEP050AHX, CEP050BHX, CEP050CHX
 Mercury-Xenon Power Supply Specification**

The CEP050 power supply is designed to run mercury-xenon arc lamps in a constant-power mode. The output power is adjustable from 45 to 65 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: 45 - 65 Watts, constant power.

Output voltage compliance: 14.0 to 40.0 V operating.

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



Output current: 3.0 to 4.0 Adc (8.0A during run-up)

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,0.3A
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:

- AHG <300µA
- BHG <10µA
- CHG <100µA

Regulatory Compliance: TUV60601 with CB scheme. Complies with EN55022.

Line Input: 100 - 240 VAC, +/- 10%, 47 - 63 Hz, 2.4 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.