



221 Corporate Circle, Unit H  
 Golden, CO 80401  
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[www.carsaneng.com](http://www.carsaneng.com)

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

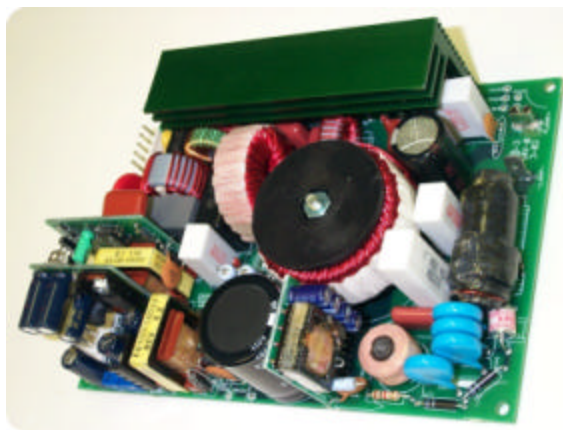
**CEP100AHG, CEP100BHG, CEP100CHG**  
**Mercury Power Supply Specification**

The CEP100 power supply is designed to run mercury arc lamps in a constant-power mode. The output power is adjustable from 90 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:** 90 - 135 Watts, constant power

**Output voltage compliance:** 18.0 to 30.0 V operating.

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



**Output current:** 2.0 to 6.5 Adc (8.0A during run-up)

**Low-frequency output ripple:** <2.0%<sup>†</sup>

**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:**

AHG <300µA  
 BHG <10µA  
 CHG <100µA

**Regulatory Compliance:** Medical Approval to EN60601-1 and TÜV Mark. Complies with EN55022. Meets EN 91000-3-2 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.

Specifications subject to change without notice.



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