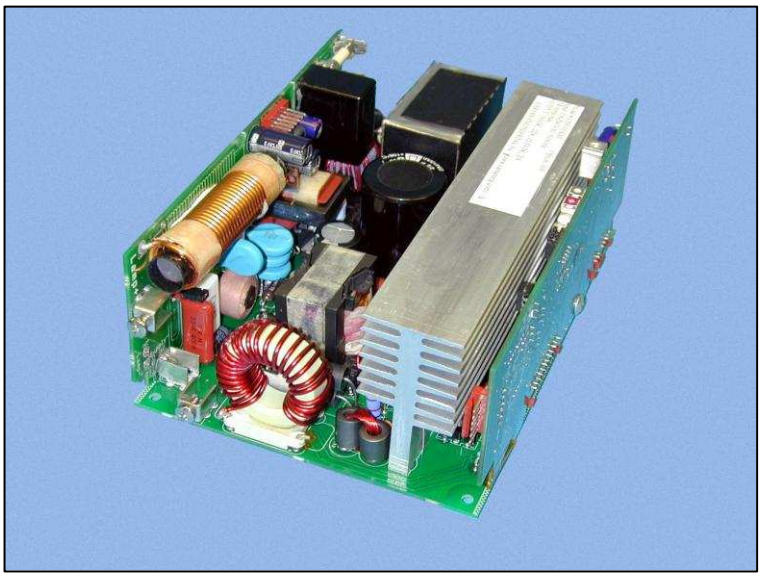
CEP300AHX, CEP300BHX, and CEP300CHX

MERCURY-XENON POWER SUPPLY with PFC



The CEP300AHX, CEP300BHX, and CEP300CHX power supplies are designed to run Mercury-Xenon arc lamps in a constant-power mode. All CEP models have PFC.

The CEP300 power supply is designed to run Mercury-Xenon arc lamps in a constant-power mode. The output power is adjustable from 270 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 (PFC) to meet EMC limits for harmonic current emissions, and limitations of voltage fluctuations and flicker.

Key Features

- Line Input: 100 - 240 VAC, ± 10%, 50 - 60 Hz, 6.5 Arms max.
- Environmental: 0° C to 40° C operating.
- Altitude: -1,000 ft. to 12,000 ft. (-305 m to 3658 m) MSL.
- Weight: 2.7 lbs. (1.2 Kg).
- Dimensions: 6.50” x 4.65” x 2.60” tall (165mm x 114mm x 66 mm tall).

Ignitor:

- 25 KV ignition spike. Positive-side ignition.
- Minimum repetition rate is 10 strikes/second at 90VAC.
- Ignition pulses will continue for ± 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.

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Output power: 270 - 315 Watts, constant power
Output voltage compliance: 12.0 to 17.0 V operating, > 110 VDC during ignition.
Output regulation: output power held to within ± 5% over all input, output, and environmental conditions.
Output current: 17.0 to 22.0 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 and Control Connector (SELV rated):

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

Ground leakage:

- CEP300AHX < 300 µA
- CEP300BHX < 10 µA
- CEP300CHX < 100 µA

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

Regulatory Compliance

Approved to UL2601 with CB scheme (E177225).
Complies with EN55011 Class B Emissions.
Meets EN 6100-3-2 and EN61000-3-3. CE-marked.

About Excelitas Technologies

Excelitas Technologies is a global technology leader focused on delivering innovative, customized solutions to meet the lighting, detection and other high-performance technology needs of OEM customers.

From medical lighting to analytical instrumentation, clinical diagnostics, industrial, safety and security and aerospace and defense applications, Excelitas Technologies is committed to enabling our customers' success in their end-markets.

Excelitas Technologies has approximately 3,000 employees in North America, Europe and Asia, serving customers across the world.

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