



CEP301AHG, CEP301BHG, CEP301CHG, CEP301AMH, CEP301BMH, and CEP301CMH

300W Mercury and Metal Halide Power Supply with 12V and 5V Auxiliary Outputs



The CEP301AHG, CEP301BHG, CEP301CHG, CEP301AMH, CEP301BMH, and CEP301CMH power supplies are designed to run mercury and metal halide arc lamps in a constant-power mode or constant current mode.

The CEP301 power supply is designed to run mercury and metal halide arc lamps in a constant-power mode (Default) or constant current mode (By Factory Request Only). The supply is designed to run the Osram XBO and Cermax® family lamps. The output power is adjustable from 75 to 300 Watts in power mode 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 and an isolated +5V for powering CMOS level circuitry.

Active Power Factor Correction meets EMC limits for harmonic current emissions, and limitations of voltage fluctuations and flicker.

Key Features

- Line Input: 100 - 240 VAC, $\pm 10\%$, 50 - 60 Hz, 5.3 Arms max.
- Environmental: 0° C to 50° C operating.
- Altitude: 0 ft. to 6,000 ft. (0 m to 1830 m) MSL.
- Weight: 2.7 lbs. (1.2 Kg).
- Dimensions: 6.50" x 4.55" x 2.25" tall (165 mm x 116 mm x 57 mm tall).

Ignitor:

- ± 15 kV ignition spike (± 3 kV). Bilateral ignition.
- Minimum repetition rate is 6 strikes/second (± 2 strikes)
- Ignition pulses will continue for 6 ± 1 sec. This feature may be disabled via jumper, in which case the ignition pulses will continue until the lamp ignites.
- Ignitor Life: > 80,000 strikes.

300W MERCURY and METAL HALIDE POWER SUPPLY with 12V and 5V AUXILIARY OUTPUTS

Output power: 75 - 300 Watts, constant power

Output voltage compliance: 10 to 40 V operating,
> 110 VDC during ignition.

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

Output current: 4.0 to 10.0 Adc

Output ripple: <5% @ 300W*

Efficiency: >80% 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 1 (SELV rated): +12 VDC
± 5%, 2.5A max.

Isolated Auxiliary output 2 (SELV rated): +5 VDC
± 5%, 0.5A max.

**Optically Isolated Status and Control Connector
(SELV rated):**

- Remote enable
- Lamp lit status
- Lamp over-voltage/under-voltage indicator

Ground leakage:

- CEP301AHG/AMH < 300 µA
- CEP301BHG/BMH < 30 µA
- CEP301CHG/CMX < 100 µA

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

Regulatory Compliance

Approved to UL60601/IE60601, 2nd and 3rd Edition (E177225)

Complies with EN55011 Class B Emissions.

Meets EN 61000-3-2 and EN61000-3-3. CE-marked.



About Excelitas Technologies

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focused on delivering innovative, customized solutions to
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technology needs of OEM customers.

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clinical diagnostics, industrial, safety and security and
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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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