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QT112AXE Xenon Power Supply Specification

The QT112AXE power supply is designed to run xenon arc lamps in a constant-power mode. The output power is adjustable from 90 to 140 Watts via a potentiometer on the circuit board. EMI line-filtering is built-in to the unit. The supply includes a +12V output for powering external fans or electronics, a lamp over-voltage warning, lamp over-voltage disable, and external disable.

Output power: 90 - 140 Watts, constant power

Output voltage compliance: 12.0 to 17.75 V operating.

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



Output current: 6.5.0 to 10 Adc

Low-frequency output ripple: <2.0%[†]

Broadband output ripple: <0.4 Ap-p*

Efficiency: >70% at 112 W output, 120 VAC input

Thermal protection: ballast is disabled when heatsink temperature exceeds 90 deg C. Unit will automatically restart after cooling down.

Auxiliary output: +12V fan power, 250 mA max.

I/O Connector:

- Lamp Over-voltage Alert: active when lamp voltage reaches 17.5 +/- 0.175 VDC.
- External Lamp Disable

Over-voltage shutdown: Shuts down the lamp output if the lamp voltage exceeds 17.75VDV for more than 1 second.

Regulatory Compliance:

Approved to UL2601 (E177225). Complies with EN55011 Class B Emissions. CE-marked.



Line Input: 100 - 240 VAC, +/- 10%, 47 - 63 Hz, 3.0 Arms max.

Environmental: 0 deg C to 50 deg C operating.

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

Vibration: Survives 10Hz to 2kHz 1.0G sine sweep on all axis.

Non-operating Shock: Survives 40.0G half sine 11ms pulses on all axis.

Weight: 2.1 lbs (0.95 Kg).

Dimensions: 6.75" x 4.25", 2.75" tall (171mm x 108mm, 70mm tall).

Ignitor:

25 KV ignition spike, positive ignition.

Minimum repetition rate is 0.8 strikes/second at 90 VAC. Typical repetition rate is 1.0 strikes/second (110 VAC).

Ignition pulses will continue for 10 seconds max. If ignitor disable jumper is installed, ignition pulses will continue indefinitely until lamp is lit.

[†] 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.