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ISO 9001:94 Registered

Input / Output Connections

Models: CE260AXE, BXE, CXE
CE260AHX, BHX, CHX
CE160AXE, BXE, CXE

AC Input:

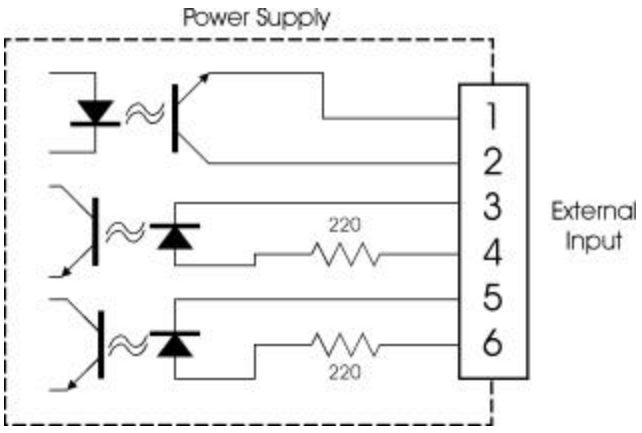
100 - 240 VAC, +/- 10%, 6.5 Arms maximum
47 - 63 Hz
0.25” faston-type connectors

Lamp Output:

0.25” faston-type connectors:
Male connector for lamp cathode (-)
Female connector for lamp anode (+)
Screw terminal connectors (6-32 or M3 screws) also available

Status and Control Connector:

6-pin, 0.1” spacing, with locking ramp
Use Molex 10-11-2063 connector or equivalent
pin 1: Lamp Lit Return
pin 2: Lamp Lit Output
pin 3: Enable Return
pin 4: Enable Input
pin 5: High/Low Lamp Intensity Return
pin 6: High/Low Lamp Intensity Input



Fan Connector:

2-pin, 0.1” spacing, with locking ramp

Use Molex 22-01-3027 connector or equivalent

Current Sense Test Points:

The voltage between test points TP7 and TP4 indicates the output power. The scale is 1mV/W, so 300 mV means 300 W to the lamp. Test points TP3 and TP4 are across a 0.01 ohm resistor that is in series with the output to the lamp. This can be used to monitor output current.

Auto-Run Jumper:

Attaching a two-pin shorting block across this connector forces the supply to run as soon as power is applied. The state of the Enable input is ignored.

Using The Status and Control Connector

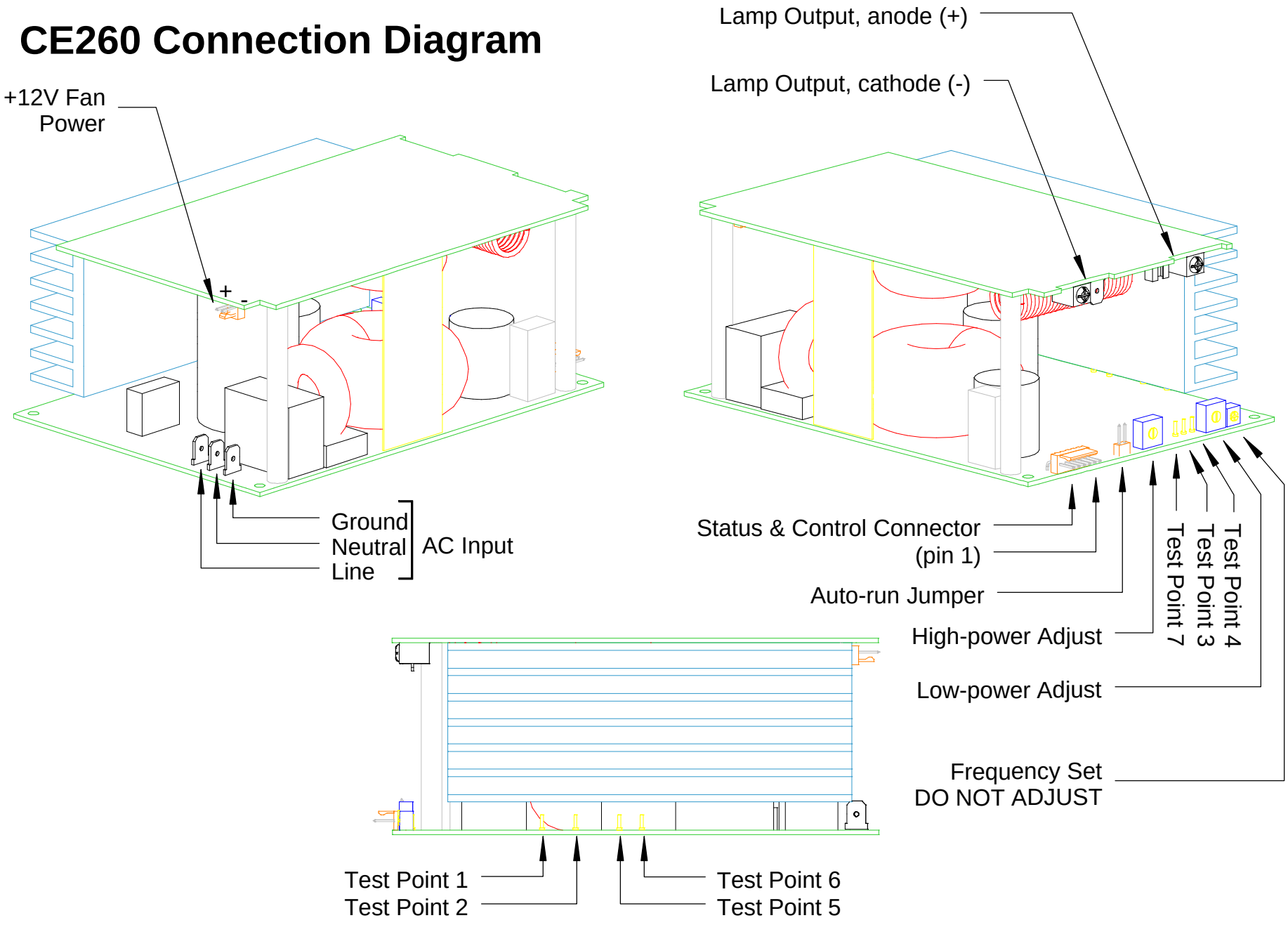
The Status and Control Connector consists of two inputs and one output, each of which is optically isolated. The inputs are designed to be driven by a TTL or 5V CMOS gate. The source used must be capable of supplying 2.0 mA into a 2.1 V load. (Some TTL gates are not able to drive a 2.1 V load reliably without a pull-up resistor.)

The Enable input turns the lamp on and off. A high input to the Enable pin turns on the lamp. The auxiliary +12 V supply runs all the time, regardless of the state of the Enable input. The electrical delay of the enable input is less than 10 ms. To turn on the lamp, the delay of the Enable input must be added to the time to ignite the lamp, which is approximately 100 ms, for a total of 110 ms. Turning off the lamp takes only 10 ms.

The Lamp Intensity input sets the output power to low power or high power. If a low input signal is applied (or no signal is present) the lamp output is approximately 175 watts (130W for CE160), as set by the Low Power Adjust. When a high input is applied, the output goes to approximately 300 watts (220W for CE160), as set by the High Power Adjust. Internally the high power is added to the low power setting, so changing the Low Power Adjust will also change the output power in high power mode. Because of this interaction, the Low Power Adjust should be set first, followed by the High Power Adjust. The delay of the Lamp Intensity input is less than 10 ms.

The Lamp Lit output is a transistor that is on when current is flowing to the lamp. The collector current will be greater than 3.0 mA when the lamp is on. A 2.2K ohm resistor pull-up will create a TTL-compatible signal. The delay from light output from the lamp to the Lamp Lit output being asserted is less than 10 ms.

CE260 Connection Diagram



CE 260 Mounting Dimensions

Dimensions are in inches (mm in parenthesis)