

## SECTION 678-5

### POWER SUPPLY MODULE (MODEL 206)

#### 678-5.1 General:

A power supply shall be provided to supply +24 VDC to the Output File for use by its associated devices.

#### 678-5.2 Design Requirements:

The power supply shall be of ferro-resonant design having no active components.

The front panel shall include AC and DC fuses, power On light and test points for monitoring the output voltages.

The Module Chassis shall be vented. Its top and sides shall be open except for unit supports.

The module shall be held firmly in place in the PDA assembly by its stud screw, assembly connector support panel and a wingnut.

Terminal screw size shall be 10-32 for TBK T1, T2 and T4; and 6-32 for TBK T3.

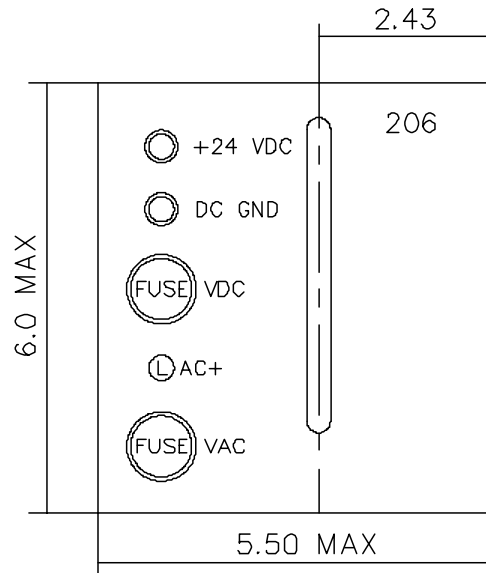
#### 678-5.2.1 Electrical Characteristics:

- (a) Line Regulation shall be 2% from 90 to 135 VAC at 60 Hz, plus an additional 1.6% for each additional 1.0% frequency change.
- (b) Load Regulation shall be 5% from 1 ampere to 5 amperes with a maximum temperature rise of 86°F (30°C) above ambient.
- (c) The Design Voltage shall be +24 ( $\pm 0.5$ ) VDC at full load 86°F (30°C), 115 VAC incoming after a thirty (30) minute warm-up period.
- (d) The Full Load Current shall have a minimum of 5 amperes.
- (e) Ripple Noise shall not exceed 2 volts peak-to-peak and 500 millivolts RMS at full load.
- (f) The power supply Line Voltage shall be between 90 and 135 VAC.
- (g) A 70% (minimum) efficiency shall be met.
- (h) Circuit Capacitors shall be rated for 40 volts, minimum.

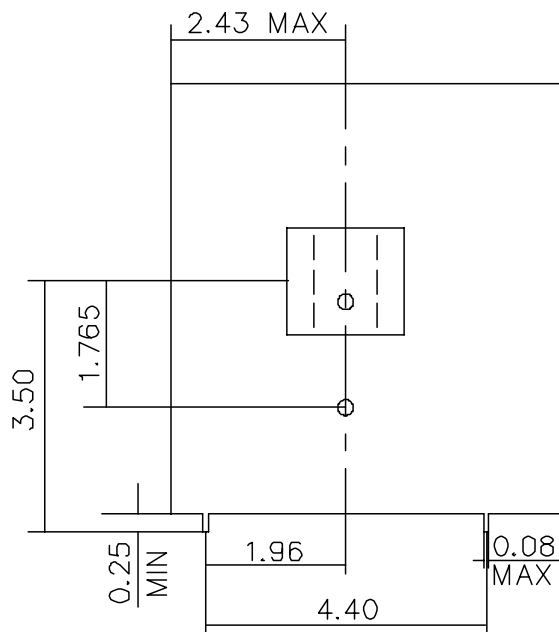
- (i) Two (2) 0.5 ohm, 10 watt minimum wire-wound power resistors with 0.2 uH inductance shall be provided [one (1) on the AC+ power line and one (1) on the AC-line]. Three (3) MOV surge arrestors rated for 20 Joules minimum shall be supplied between AC- and EG; AC- and EG; and between AC- and AC-. A 0.68 uF capacitor shall be placed across AC- and AC- between the two (2) power resistors and the MOV's.

**678-5.2.2 Physical Characteristics:**

The physical attributes of the Model 206 Power Supply Module are shown in Figure 678-10.



-FRONT VIEW-



Note: All dimensions are shown in inches

-REAR VIEW-

FIGURE 678-10: MODEL 206 POWER SUPPLY MODULE PHYSICAL DETAILS