

# CAMAC POWER SUPPLY 1410 A

## 1.0 GENERAL DESCRIPTION

The Model 1410A power supply is an improved version of the prior 1410 and is designed for use with the CAMAC Modular Instrumentation System for Data Handling. The 1410 A supply is a combined unit providing both power and cooling air to the system electronics. Except as specified herein, the performance specifications of the Model 1410A meet or exceed the intent of the draft titled "Specification for a Typical CAMAC Power Supply", by the U. S. CAMAC Mechanical and Power Supply Working Group.

## 2.0 SPECIFICATIONS

This instruction manual contains, as part of its specifications, a copy of the appropriate dated draft from the U. S. CAMAC Mechanical and Power Supply Working Group. This draft is accompanied by schematics and mechanical drawings to insure proper installation, maintenance and operation of a typical CAMAC System.

### 2.1 OUTPUTS

+6.00 volts at 0 to 25 amps  
-6.00 volts at 0 to 25 amps  
+24.00volts at 0 to 6 amps  
-24.00volts at 0 to 6 amps

the four outputs are simultaneously available but the  $^{+}6.0v.$  supplies operate on a current sharing basis such that the total combined current outputs are limited to 25 amps. Likewise, the  $^{+}24v.$  supplies are current shared and are limited to a total combined current output of 9 amps.

### 2.2 POWER DE-RATING:

The maximum output power of the 1410A supply is 375 watts at 25 degrees centigrade ambient, de-rated to 300 watts at 50 degrees centigrade ambient. Excessive power draw will result in either a blown input fuse or the Hi-Temp. warning lamp will light. The  $^{-}6v$  heat sink contains an over temperature switch which opens at excessive temperature thus protecting the pass transistors.

### 2.3 REGULATION:

The  $^{+}6.0v.$  outputs shall not vary more than  $^{-}0.5\%$  for line voltage changes of  $^{+}10\%$  and  $^{-}12\%$  and for load changes of 0 to 25 amps.