GENERAL ELECTRIC

REV NO.	A	TITLE	68A992130 CONT ON SHEET FL. SH NO. 1
68A992130 CONT ON SHEET FL. SH NO. 1		±50V, 150MA POWER SUPPLY TEST INSTRUCTIONS	
		FIRST MADE FOR JC3601A105A	

REVISIONS

1	JAF.ncw D.I.& D.2 CHGD 3MV TO 20MV	7-28-89
2	UPDATED D, F. G.W.S.	8-30-96

RATING - ±50V, .150 AMPERES

A. TESTS TO BE MADE
1. COMPONENT CHECK.
2. VOLTAGE ADJUSTMENT RANGE.
3. LOAD REGULATION AND RIPPLE.
4. LINE REGULATION.
5. SHORT CIRCUIT AND RECOVERY.

B. TEST CONNECTIONS
1. CONNECT AC INPUT AND OUTPUT LOAD
2. MONITOR POWER SUPPLY OUTPUT TERMINALS WITH DIFFERENTIAL VOLTMETER AND LOW LEVEL OSCILLOSCOPE.

C. VOLTAGE ADJUSTMENT RANGE
1. APPLY A.C. POWER
2. WITH VOLTAGE ADJUST POT FULL CCW, OUTPUT VOLTAGE MUST NOT EXCEED 48 VOLTS.
3. WITH VOLTAGE ADJUST POT FULL CW, OUTPUT VOLTAGE MUST BE GREATER THAN 52 VOLTS.

D. LOAD REGULATION AND RIPPLE
1. SET OUTPUT VOLTAGE TO 50.000 ±.01 VOLTS WITH .15 AMPERES OF LOAD CURRENT. RIPPLE MUST NOT EXCEED 40 MV PEAK TO PEAK.
2. REDUCE LOAD TO .015 AMPERE. OUTPUT VOLTAGE MUST NOT CHANGE MORE THAN 20MV.

3. LINE REGULATION
1. SET OUTPUT VOLTAGE TO 50.000 ±.01 VOLTS WTH .15 AMPERES OF LOAD CURRENT.
2. SET INPUT A.C. VOLTAGE TC -15% AND THEN TO +15%. OUTPUT VOLTAGE MUST NOT CHANGE MORE THAN 5MV OVER THIS RANGE.

F. SHORT CIRCUIT AND RECOVERY
1. INCREASE LOAD CURRENT SLOWLY ABOVE .15 AMPERES.
2. SOMEWHERE BETWEEN .2 AND .3 AMPERES THE OUTPUT VOLTAGE AND CURRENT SHOULD FALL RAPIDLY TOWARD ZERO. WITH A SHORT CIRCUIT ON THE OUTPUT, THE OUTPUT CURRENT SHOULD NOT EXCEED .035 AMPERE.
3. REDUCE THE LOAD SLOWLY TOWARD NORMAL. THE POWER SUPPLY SHOULD RECOVER AND REGULATE NORMALLY WITH A LOAD CURRENT OF .10 AMPERES OR ABOVE.

~~KGA~~
~~SGA~~
1338
~~PXW~~ CW

PRINTS TO

MADE BY	APPROVALS		68A992130
S. POWERS	Cannon	INDUSTRY CONTROL DIV OR DEPT	CONT ON SHEET FL. SH NO. 1
ISSUED July 17, 1964		SALEM, VIRGINIA LOCATION	