

6 8 A 9 9 2 1 3 0

CONT ON SHEET FL SH NO. 1

REV
NO. A

A

TITLE

6 8 A 9 9 2 1 3 0

±50V, 150MA POWER SUPPLY TEST INSTRUCTIONS

CONT ON SHEET FL.

SH NO. 1

FIRST MADE FOR JC3601A105A

RATING - $\pm 50V$, .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 \pm .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 $50,000 \pm .01$ VOLTS WITH .15 AMPERES OF LOAD CURRENT.
2. SET INPUT A.C. VOLTAGE TO -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.

REVISIONS

JAF.new : 7-28-89
D.I.E'D.2 CHG'D 3MV TO 20MV

UPDATED D, F.
G. W. S. 8-30-96

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2

~~KGA~~

~~SGA~~

1338

PXW CH

PRINTS TO 1

MADE BY S. POWERS

APPROVALS

INDUSTRY CONTROL

DIV OR
DEPT

6 8 A 9 9 2 1 3 0

ISSUED July 17, 1964

Cannon

SALEM, VIRGINIA

LOCATION

CONT ON SHEET FL. SH NO. 7