


USED ON	MODEL NO.	REV.	ECO	DESCRIPTION	DATE	APPROVED
700227-001	NFS90-7630L	9A	FE940034	PRE. RELEASE	4/27/94	FM, HN
		9B	FE940138	CHG'D PER ECO.	7/19/94	HSL, S.C.
		A	FE940159	RELEASE TO MFG	8/22/94	HSL, S.C.
		B	FE990197	CHG'D BATTERY MONITOR TEST	9/10/99	SC
		C	FE000040	RELAX BAT. MON. VOLTAGE UPPER LIMIT TO 47V	4/19/00	S.C.

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCE ARE: .X=± ANGLE=± .XX=± .XXX=±	APPROVALS:	DATE							
	DRAWN NARINDER	4/27/94		DESCRIPTION: PROCEDURE, T/Q NFS90-7630L					
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	MFG. ENG. HN	4/27/94							
	RELEASED FM	4/29/94							
	CAD FILE NO:	97062802.DWG							

TEST SPECIFICATIONS

PART #: 700227-001
 MODEL: NFS90-7630L

HIPOT
 PER DWG 920034 UL/CSA/VDE

INPUT TYPE	LINE			TURN-ON BAND		
	LOW	NOM	HIGH	MIN	MAX	LDG
AC	84	120	264	40	83	1
DC	11	14	32	9	10.5	1

OUTPUTS	LOAD GROUPS (amps)					SETPOINT				REGULATION BAND	
	1	2	3	4	5	MIN	MAX	LDG	LINE	MIN	MAX
1 +5.60V	1.5	1.5	5	5						5.55	5.85
2 +12V	1.2	2.5	1.2	2.5						11.64	12.48
3 +14.40V	0.5	1.85	0.5	1.0						13.1	15.7
4 -14.40V	0.5	1.25	0.5	1.0						-13.1	-15.7
5 +43.40V	0.025	0.05	0.025	0.05						38.2	44.8
6											
7											

OUTPUTS	RIPPLE(mv pk-pk)			I LIMIT(amps)				OVP(volts)			
	MAX	LDG	LINE	MIN	MAX	LDG	LINE	MIN	MAX	LDG	LINE
1 +5.60V	50			8A	16A	4	90	6	7	1	110
2 +12.0V	100										
3 +14.40V	100										
4 -14.40V	100										
5 +43.40V	200										
6											
7											

SPECIAL FUNCTIONS :

- +5.6V CAN BE TRIMMED BY CHANGING VALUE OF R19 (S.A.T.)
- POWER LIMIT TEST: 90VAC, LOAD GROUP 4, INCREASE +5.60V LOAD UNTIL IT DROPS TO 5.40V. THE CURRENT SHOULD BE BETWEEN 8A-16A
- POWER LIMIT TEST: DC INPUT 11V, LOAD GROUP 4, CURRENT SHOULD BE BETWEEN 6A-16A
- DO NOT HIPOT SEC TO GROUND AND SEC TO SEC.



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SCALE NONE	SHEET 2 OF 4	

TEST PLAN:

PART #: 700227-001
MODEL #: NFS90-7630L

CHECK ALL UNITS FOR THE FOLLOWING:

1. TURN ON (A.C. MODE).
2. 5.6V TRIM.
3. LINE REGULATION.
4. LOAD REGULATION.
5. RIPPLE.
6. I LIMIT.
7. O.V.P.
8. POWER LIMIT.
9. TURN ON (D.C. MODE)
10. LINE REGULATION.
11. LOAD REGULATION.
12. INPUT PROTECTION.
13. AC/DC INDICATOR.
14. BATTERY MONITOR.
15. I LIMIT (D.C.)
16. POWER LIMIT (D.C.)
17. RIPPLE.

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SIZE
A

DWG. NO.

970628-02

REV.
C

SCALE

NONE

SHEET 3

OF 4

TEST PROCEDURE

1. THIS IS AN AC TO DC POWER SUPPLY. THE AC INPUT RANGE IS FROM 84VAC TO 264VAC AND THE DC INPUT RANGE IS FROM 11VDC TO 32VDC.
2. TEST THE AC MODE AS PER PAGE 2 BY ACTIVATING THE ON/OFF SWITCH S1 AND AC/DC MODE SWITCH S2.
3. DC MODE: APPLY A DC SOURCE VOLTAGE OF 11V-32VDC. (USE SORESEN, 100V 15A OR ANY OTHER DC SOURCE CAPABLE OF SOURCING MORE THAN 15A).
 - A. TURN ON: 9.0V-10.50V
 - B. TEST AT 11V, 14V AND 32V PER TEST SPEC.
 - C. INPUT PROTECTION: FROM 32.50V TO 36.00V BY INCREASING VOLTAGE.
PASS 32V AT LOAD GROUP 1. FUSE F2 MAY BLOW UP WHEN INPUT REACHES OVP. IF SORESEN POWER SUPPLY IS USED FOR THIS TEST, ADJUST THE CURRENT TO 5A TO PREVENT F2 FROM BLOWING UP.
 - D. ADDITIONAL TESTS:
 - AC/DC INDICATOR (J1-13) SHOULD BE HIGH (+5V)
 - BATTERY MONITOR (J1-12) SHOULD READ 28V_{peak} TO 47V_{peak} AT 14VDC, LOAD GROUP 3. USE OSCILLOSCOPE.
4. BURN-IN: DC MODE, 14VDC, LOAD GROUP 4 WITH 30CFM FAN, 50 DEGREE C.



SIZE A	DWG. NO. 970628-02	REV. C
SCALE NONE	SHEET 4 OF 4	