USED ON	MODEL NO.	REV.	ECO	DESCRIPTION	DATE	APPROVED
700227-001	NFS90-7630L	9A	FE940034	PRE. RELEASE	4/27/94	FM, HN
		7 3/	FE940034-A	CHANGE PER ECO.	7/12/94	NS, SC
		9B	FE940138	CHANGE PER ECO.	8/1/94 -	HEL S.C
-		Α	FE940159	REL. TO MFG.	8-22-94	<u> </u>

CHECKED

REC'D - 6 SEP 1994 ISSUE - 3 NOV 1994

CAD GENERA	TED DOCU	MENT, DO) NO	T ALTER	MANUALLY	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCE ARE:	APPROVALS:	DATE			COMPUTER ** PRODUCTS	
.X=± ANGLE=± .XX=± .XXX=±	NARINDER CHECKED	4/27/94	DESCRIPT	POWER	· · · · · · · · · · · · · · · · · · ·	
DO NOT SCALE DRAWING	JM ENG. HN	<u>4/29/94</u> 4/27/94	Į		SPECIFICATION	
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF C.P.I./NAD. THE POSSESOR OF THIS DOCUMENT AGREES:	MFG. ENG. FM	4/29/94		NFS	90-7630L	
TO MAINTAIN THIS DOCUMENT IN CONFIDENCE	RELEASED FM	4/29/94	SIZE	DWG. NO.		REV.
II NOT TO REPRODUCE OR COPY IT.	CAD FILE NO: 970	62801	Α		970628-01	A
III NOT TO REVEAL OR PUBLISH IT. IN WHOLE OR IN PART	FLOPPY: X 3.5	5 1/4	SCALE:	NONE	SHEET 1 OF	6
93003101 REV. A		•			COMPUTER PRODU	JCTS/NAD

THIS SPECIFICATI	ON IS:			DATE _	3/10/94	_
• •	CONTROLLED BY THE					
GENERAL DESCRIPTIO	N:					
CUSTOMER HEWLETT PA		CUSTOMER S	SPEC NUMBE	R		
ASSY# 700227-01						
FUNCTIONAL DESCRIPTION: INTENDED APPLICATION:	******					-
PRODUCT SAFETY RE	QUIREMENTS					a.
THIS PRODUCT DESIGNED TO	D MEET:					
UL	CSA <u>1</u>	402C	VDE	<u> </u>	· · · · · · · · · · · · · · · · · · ·	
TUV	BABT		отні	ER		
REQUIRED SAFETY AGENCY	APPROVALS:					
UL [] YES [X] NO	CSA [X] YES	6 [] NO	VDE	[] YES [X] NO	•	
TUV [] YES [X] NO	BABT [] YE	ES [X] NO	отн	ER	·	
ELECTRICAL SPECIFIC	ATIONS:					
INPUT: AC / DC	RANGE 1			RANGE 2		
		HIGH	LOW		IIGH	
VOLTAGE	84 220	264	11		<u>32 </u> V	
MAX RMS CURRENT	2.0 .95	.90	12.8	7.9	3.5_A	
MAX INRUSH: <u>COLD</u> HOT	<u>6</u> <u>20</u> <u>42</u>	<u>26</u> 48			<u>. </u>	
HOLD-UP TIME	10 35 r	mS		mS (90 W output	
POWER FAIL DETECT			-			
TRIP POINT					TRIP RESET	
(Full power load. Trip is				asurea going up)		
HOLD-UP TIME AFTER PFD				44.5		
LINE FREQUENCY 45				POWER115_	w	
LINE TRANSIENT SPEC				AMPS ON E		
SWITCHER SHALL START BE				AMPS ON E		
SWITCHER SHALL DROP OUT				. 		
OUTPUT: (All outputs D.C. (All return comm		up to 1/2 rate	ed current u	nless noted)		
CO PD	MPUTER™		SIZE D	wg. no. 97	70628-01	RE'
POWER CO	DIVERSION		SCALE	NONE	SHEET 2 OF	- 6

)UTPUT #	PIN #	NOMINAL VOLTAGE (V)	AVEN I _{MIN} (A)	RAGE MAX (A)	I MAX FAN (A)	PEAK (A)	BURN-IN	TOTAL ERRO BAND 25°C (V)	TOT	(STEADY L TAL ERROI . AMBIENT	R BAND	P-P RIPPLE (m 0-20 MH	iV) z
1	4,5	5.60	1.50	5				<u>5.55</u> TO _5	5.85	т	то	_50	
2	_7_	<u>14.4</u> 0	<u>.5_</u>	1.85	·			13.00 TO 15	5.80	т	·o	100	
3	9_	<u>-14.</u> 40	<u>.5</u>	1.25			, <u> </u>	- <u>13.00</u> TO <u>15</u>	5.80	т	·o	100	
4	_1_	12	1.2	2.5				11.64 TO 12	2.48	т	то	100	
5	11 8.10.	<u>43.4</u> 0	.025	.050				38.00 TO 45	5.00	т	·o	_200_	
6	8,10, <u>2,3</u>	RET											
7	14	REMOTE	ON/OF	F									
8	12	BATTER	Y <u>MONI</u> TO	DR									
9	13	AC/DC	<u>OPER</u> A	TI <u>ON IN</u> D	ICATOR								
-	TION 1	001EP ***	Albai ira 🗻	ONTHI :-	IIC MED	AGE DO)WED OUT	90		DEAL	۵۸	\AIA	
								90 T				- <u>-</u> -	
							90					wai (d	
OUTPUT	#	1	2		4		5	6 7	8	5			
		.2%	-~				F 6 *						
		POINT		WATTS		м	.5% N/A		 MUM				-
OVERPO TRANSIE	OWER C	POINT IRCUIT BRE SPONSE:	EAKER [WATTS	MINIMUN	м :оит	N/A	SECONDS.		P VOITE	2 F		-
OVERPO TRANSIE OUTPUT	OWER C	POINT IRCUIT BRE SPONSE: VOLTAGE	FRC	WATTS]: MAXIM	MINIMUM MUM TIME	м :оит	N/A AK TRANSIE	SECONDS.	TO % O	R VOLTAC			
OVERPO TRANSIE OUTPUT	OWER C	POINT IRCUIT BRE SPONSE: VOLTAGE +5.5	FRC	WATTS]: MAXIM	6 MINIMUM MUM TIME TO 3	м :оит	N/A AK TRANSIE 500	SECONDS. INT TIME	TO % O	0.5	5%		
OVERPO TRANSIE OUTPUT	OWER C	POINT IRCUIT BRE SPONSE: VOLTAGE	FRC	WATTS]: MAXIM	MINIMUM MUM TIME	м :оит	N/A AK TRANSIE	SECONDS. INT TIME	TO % O	0.5	5%		
OVERPO TRANSIE OUTPUT	OWER C	POINT IRCUIT BRE SPONSE: VOLTAGE +5.5	FRC	WATTS]: MAXIM	6 MINIMUM MUM TIME TO 3	м :оит	N/A AK TRANSIE 500	SECONDS. INT TIME	TO % 0 ns TO ns TO	0.5	5%		
OVERPO TRANSIE OUTPUT	OWER C	POINT IRCUIT BRE SPONSE: VOLTAGE +5.5	FRC	WATTS]: MAXIM	6 MINIMUM MUM TIME TO 3	м :оит	N/A AK TRANSIE 500	SECONDS. INT TIME	TO % 0 ns TO ns TO	0.5	5%		
OVERPO TRANSIE OUTPUT 1 2	WER CI	POINT IRCUIT BRE SPONSE: VOLTAGE +5.5	FRC	WATTS]: MAXIM	6 MINIMUM MUM TIME TO 3	PE	N/A AK TRANSIE 500 500	SECONDS. TIME 1 m 2 m	TO % O ns TO ns TO TO TO	0.5 0.5	5%		
OVERPO TRANSIE OUTPUT 1 2	WER CI	POINT IRCUIT BRE SPONSE: VOLTAGE +5.5 +12V OUTPUT	FRC	WATTS]: MAXIM	TO 3 2.5	PEJ	N/A AK TRANSIE 500 500	SECONDS. TIME 1 m 2 m	TO % O ns TO ns TO TO TO CURRENT HRESHOLD	0.5 0.5	5% 5% 		
OVERPO TRANSIE OUTPUT 1 2	WER CI	POINT IRCUIT BRE SPONSE: VOLTAGE +5.5 +12V OUTPUT	FRC	WATTS]: MAXIM	TO 3 2.5	PEJ	N/A AK TRANSIE 500 500	SECONDS. TIME 1 m 2 m	TO % O ns TO ns TO TO TO CURRENT HRESHOLD	0.5 0.5 PROTECT BAND	5% 5% TION		
OVERPO TRANSIE OUTPUT 1 2	WER CI	POINT IRCUIT BRE SPONSE: VOLTAGE +5.5 +12V OUTPUT	FRC	WATTS]: MAXIM	TO 3 2.5	PEJ	N/A AK TRANSIE 500 500	SECONDS. TIME 1 m 2 m	TO % O ns TO ns TO TO TO CURRENT HRESHOLD	O.5 O.5 PROTECT	5% 5% TION		
OVERPO TRANSIE OUTPUT 1 2	WER CI	POINT IRCUIT BRE SPONSE: VOLTAGE +5.5 +12V OUTPUT	FRC	WATTS]: MAXIM	TO 3 2.5 OVP THR BAN	PE	N/A AK TRANSIE 500 500	SECONDS. TIME 1 m 2 m	TO % O ns TO TO CURRENT HRESHOLD TO	O.5 O.5 PROTECT	5% 5% TION		
OVERPO TRANSIE OUTPUT	WER CI	POINT IRCUIT BRE SPONSE: VOLTAGE +5.5 +12V OUTPUT	FRC	WATTS]: MAXIM	OVP THR BAN	PE	N/A AK TRANSIE 500 500	SECONDS. TIME 1 m 2 m	TO % 0 ns TO ns TO TO TO TO TO TO TO TO TO	O.5 O.5 PROTECT	5%		
OVERPO TRANSIE OUTPUT 1 2	WER CI	POINT IRCUIT BRE SPONSE: VOLTAGE +5.5 +12V OUTPUT	FRC	WATTS]: MAXIM	OVP THR BAN	PE	N/A AK TRANSIE 500 500	SECONDS. TIME 1 m 2 m	TO % 0 ns TO ns TO TO TO TO TO TO TO TO TO	PROTECT BAND	5%		
OVERPO TRANSIE OUTPUT 1 2	WER CI	POINT IRCUIT BRE SPONSE: VOLTAGE +5.5 +12V OUTPUT VOLTAGE	FRO 1.	WATTS]: MAXIM OM .5	OVP THREBAN TO TO TO TO TO TO TO	PE	N/A AK TRANSIE 500 500	SECONDS. INT TIME 1m 2m OVERCE TH	TO % 0 ns TO ns TO TO TO TO TO TO TO TO TO	PROTECT BAND	5% 5% 	- O 1	·
OVERPO TRANSIE OUTPUT 1 2	WER CI	POINT IRCUIT BRE SPONSE: VOLTAGE +5.5 +12V OUTPUT VOLTAGE	FRO 1.	WATTS]: MAXIM	OVP THREBAN TO TO TO TO TO TO TO	PE	N/A AK TRANSIE 500 500	SECONDS. INT TIME 1m 2m OVERCE TH	TO % 0 ns TO ns TO	PROTECT BAND	5%	-01	

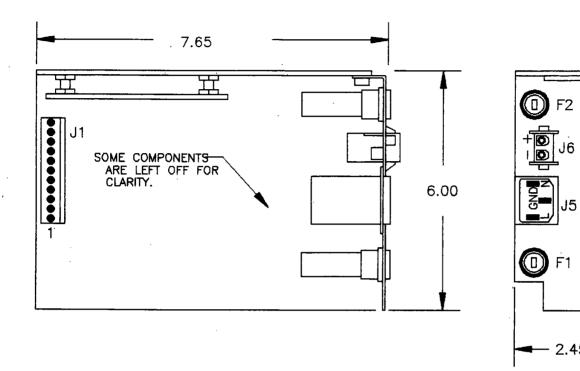
	PER H.P	ENVINCEN						
FREE AIR AMBIENT TEMPERAT	URE	-5	•с то _	70	•	.c		
TEMPERATURE COEFFICIENT O	OF OUTPUTS (%/	*C)						
	+/ <u>-14.40</u> V	02	 					
<u>+12</u> V <u>.02</u>	<u>43.40</u> ∨	.02						
OPERATING FREQUENCY: AT MINIMUM POWER AT MAXIMUM POWER EFFICIENCY RATING • 7	KHz TO _		KHz			·		
EMI_REQUIREMENTS:								*
DESIGNED TO MEET FCC	: <u>B</u> F	RADIATED?_	YES	_ CONDUCTE	D?	YES	-	
DESIGNED TO MEET VDE	0878 <u>B,MIL S</u>	D 461 B	RADIATED?	YES	_ COM	IDUCTED?	YES	
OTHER?							•	
LEAVAGE OURSENE REQUIRES	ACTURE OF SHEET	V (45 5U	יייייייייייייייייייייייייייייייייייייי					
LEAKAGE CURRENT REQUIREM		7 .	•					
LEAKAGE CURRENT REQUIREM		7 .	•	√ 9 265V, 50	OHz ((ONE POLE IS	NEUTR	ZAL)
1.5 mA 2	132V, 60Hz	3	mA			1		VAL)
1.5 mA 9 RELATIVE HUMIDITY RANGE _	132V, 60Hz	3 TO	95	%	<u>НОТ</u>	TEST CASE TE	MP'S	
1.5 ma Ø RELATIVE HUMIDITY RANGE _ ATTITUDE: OPERATIN	132V, 60Hz	3 TO KFT. MAXIN	95 MUM	%	<u>HOT</u> ent, M	TEST CASE TE	MP'S	e line)
1.5 ma @ RELATIVE HUMIDITY RANGE _ ATTITUDE: OPERATING NON-OPERATING	132V, 60Hz	TOKFT. MAXIN	95 MUM MUM	% (Max. Ambi	<u>HOT</u> ent, M 85°C	TEST CASE TE ax. Load, Wol ELECTROLYTIC	MP'S	e line) 60
1.5 ma @ RELATIVE HUMIDITY RANGE _ ATTITUDE: OPERATING NON-OPERATING MEAN TIME BETWEEN FAILURE	132V, 60Hz	TOKFT. MAXIII KFT. MAXIII KHR. MINII	95 MUM MUM	% (Max. Ambi	HOT ent, M 85°C 105°C	TEST CASE TE GX. Load, Wo ELECTROLYTIC ELECTROLYTI	MP'S ret cae	e line) 60 80
1.5 ma @ RELATIVE HUMIDITY RANGE _ ATTITUDE: OPERATIN NON-OPERATIN MEAN TIME BETWEEN FAILURE DESIGN LIFE13K	132V, 60Hz	TO	95 MUM MUM MUM MUM MUM NLESS NOTE	% (Max. Ambi	HOT ent, M 85°C 105°C OTHER	TEST CASE TE ax. Load, Wol ELECTROLYTIC	MP'S ret cas	e line) 60 80 50
1.5 ma 9 RELATIVE HUMIDITY RANGE _ ATTITUDE: OPERATING NON-OPERATING MEAN TIME BETWEEN FAILURE DESIGN LIFE13K MAXIMUM JUNCTION TEMPERATION	132V, 60Hz	TO	95 MUM MUM MUM MUM MUM NLESS NOTE	% (Max. Ambi	HOT ent, M 85°C 105°C OTHER BALUR	TEST CASE TE ax. Load, Work ELECTROLYTIC ELECTROLYTIC R CAPACITORS N HOT SPOT	MP'S ret case C	e line) 60 80 50
1.5 ma 6 RELATIVE HUMIDITY RANGE _ ATTITUDE: OPERATING NON-OPERATING MEAN TIME BETWEEN FAILURE DESIGN LIFE	132V, 60Hz	TO	95 MUM MUM MUM MUM MUM NLESS NOTE	% (Max. Ambi	HOT ent, M 85°C 105°C OTHER BALUM XFME	TEST CASE TE GX. Load, Wor ELECTROLYTIC ELECTROLYTIC R CAPACITORS	MP'S ret cas C	e line) 60 80 50 110
1.5 ma 6 RELATIVE HUMIDITY RANGE _ ATTITUDE: OPERATING NON-OPERATING MEAN TIME BETWEEN FAILURE DESIGN LIFE	132V, 60Hz	TO	95 MUM MUM MUM MUM MUM NLESS NOTE	% (Max. Ambi	HOT ent, M 85°C 105°C OTHER BALUM XFMER	TEST CASE TE TE TE TE TE TE TE TE TE TE	MP'S ret cas C	e line) 60 80 50 110
1.5 ma 6 RELATIVE HUMIDITY RANGE _ ATTITUDE: OPERATING NON-OPERATING MEAN TIME BETWEEN FAILURE DESIGN LIFE	15	TO	95 MUM MUM MUM MUM MUM NLESS NOTE	% (Max. Ambi	HOT ent, M 85°C 105°C OTHER BALUM XFMER	TEST CASE TE TE TE TE TE TE TE TE TE TE	MP'S ret cas C	e line) 60 80 50 110
1.5 ma 6 RELATIVE HUMIDITY RANGE _ ATTITUDE: OPERATING NON-OPERATING MEAN TIME BETWEEN FAILURE DESIGN LIFE 13K MAXIMUM JUNCTION TEMPERATION (MAX AMBIENT, MAX LOAD, WITCH TRANS TRANSISTORS SILICONS RECTIFIERS	15	TO	95 MUM MUM MUM MUM MUM NLESS NOTE	% (Max. Ambi	HOT ent, M 85°C 105°C OTHER BALUM XFMER	TEST CASE TE TE TE TE TE TE TE TE TE TE	MP'S ret cas C	e line) 60 80 50 110
1.5 ma 6 RELATIVE HUMIDITY RANGE _ ATTITUDE: OPERATINI NON-OPERATINI MEAN TIME BETWEEN FAILURE DESIGN LIFE	15	TO	95 MUM MUM MUM MUM MUM NLESS NOTE	% (Max. Ambi	HOT ent, M 85°C 105°C OTHER BALUM XFMER	TEST CASE TE TE TE TE TE TE TE TE TE TE	MP'S ret cas C	e line) 60 80 50 110



SIZE	DWG. NO.	970	628	-01	1	REV.
SCALE:	NONE		SHEET	4	OF	6

OUTLINE DRAWINGS AND PINOUT

(INCLUDE ALL DIMENSION)



WEIGHT LBS ENCLOSURE: NO.	1.38 KG. YES (ATTACH DRAWING)
SPECIAL MARKING, LABELS:	CSA 1402C



	SIZE A	DWG. NO.	970	0628	-0	1	REV.
,	SCALE:	NONE		SHEET	5	OF	6

CONNECTOR TYPE AC (R	ECEPTACLE): DC (AMF	350778-1)	<u>.</u>		
MATING CONNECTOR TYPE OUT	PUT P/N 450010-14	4			
INPUT AC(J5) PIN#	OUTPUT	PIN#			
A.C. LINE <u>L</u>	+5.6V	4,5			
A.C. NEUTRAL N	+12V	_1_			
A.C. GROUND <u>GND</u>	<u>+14.40</u> V	7			
	-14.40V	9			
INPUT DC(J6) PIN#	43.40V AC/DC				
11-32V <u>1</u>	INDICATOR	_13			•
RET <u>2</u>	N.C.	_14			
	BATTERY MONITOR	12			
	RET (A)	2,3			
	RET (B)	8,10			
					
SPECIAL FEATURES OR OPTIONS	OF THIS DESIGN				
1) POWER SUPPLY OPERAT	ES ON BOTH AC INP	UT (84-264VAC)	OR DC INPUT (1:	1-32VDC)	
2) STATUS OUTPUT: THIS SIG					
OR DC INPUT (TTL LOW)		ON TEN OF EIVER	O OIA NO HAPOT (TIL RIGH)	
		/ 9- 1/ 14 101/ 0			
3) +5.6 & +12V SHARE SA	ME RETURN, +43.40	V & +/-14.40V S	SHARE SECONDAR	Y RETURN.	··
				 	
		 			
					
ORIENTATION IN CUSTOMER'S PRO	DUCT (SHOW VERTICA	AL, HORIZONTAL AN	ID LATERAL AXFS):	
			=: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2:	, .	

COMPUTER ™ PRODUCTS
POWER CONVERSION

SIZE	DWG. NO.	970	628	-01	-	REV.
SCALE	NONE		SHEET	6	OF	6