

NNS - 50 INSTRUCTION MANUAL

Dwg. No.

IA 507-04-01A

Model			NNS50 - 5	NNS50 - 12	NNS50 - 15	NNS50 - 24	Rev A
Items							
1	Nominal Output Voltage	V	5	12.0	15.0	24.0	
2	Maximum Output Current	A	10	6.5	5.5	3.8	
3	Maximum Output Power	W	50	78	82.5	91.2	
4	Efficiency (Typ) (*1)	%	42	51	53	56	
5	Input Voltage Range (*2)	-	100: 85 ~ 115VAC 115: 98 ~ 132VAC 47 ~ 440Hz 200: 170 ~ 230VAC 230: 195 ~ 265VAC				
6	Input Current (Typ) (*1)	A	1.50	2.0	2.0	2.20	
7	In-rush Current (Typ)	A	60A @ 100VAC 40A @ 200VAC, cold start				A
8	Output Voltage Range	%	+/- 10				
9	Maximum Ripple & Noise (*3)	mV	1mV RMS 3mV ptp				
10	Maximum Line Regulation	mV	0.5mV	1.2mV	1.5mV	2.4mV	
11	Maximum Load Regulation	mV	1.5mV	3.6mV	4.5mV	7.2mV	
12	Over Current Protection (*4)	A	10.5 ~ 13.0	6.8 ~ 8.45	5.8 ~ 7.15	4.0 ~ 4.94	
13	Over Voltage Protection Crowbar Type (*6)	V	6.0 ~ 7.2V	14.5 ~ 17.2V	18.1 ~ 21.5V	29.0 ~ 34.3V	
14	Remote Programming	-	Volt/Volt, 1000 Ω /Volt typ. RP to - V Terminals				
15	Remote Sensing	-	POSSIBLE, VIA +S, -S Terminals				
16	Remote ON/OFF Control	-	POSSIBLE				
17	Parallel Operation	-	POSSIBLE, current sharing with single connection via PC terminal				
18	Series Operation	-	POSSIBLE				
19	Operating Temperature	°C	-20 ~ 71°C, -20°C...60%, 0 ~ 50°C...100%, 60°C...60%, 71°C...40%				
20	Operating Humidity RH	%	30 ~ 95%				
21	Storage Temperature	°C	- 40 ~ 85 °C				
22	Storage Humidity RH	%	10 ~ 95%				
23	Cooling	-	Convection Cooling				
24	Temperature Coefficient (*1)	-	0.02% / °C				
25	Withstand Voltage	-	Input - Output...3.75KVAC Input - Chassis...2.5KVAC for 1 min. @ 20mA				
26	Isolation Resistance	-	More than 100M Ω at DC 500V @ 25 °C and 70% RH for 1 min.				
27	Vibration	-	10 ~ 55Hz Amplitude (sweep 1 min.) less than 2G X, Y, Z 1 Hr. each				
28	Shock	-	Less than 20G				
29	Weight	gm	4200				
30	Size (W.H.D.) (*5)	mm	97 x 113 x 200				
31	E M I	-	Designed to meet VDE 0871 Class B, FCC 20780 Class B, VCCI Class 1				
32	Regulatory Agency	-	Designed to meet IEC 950, UL 1950, CSA 234, EN 60950				

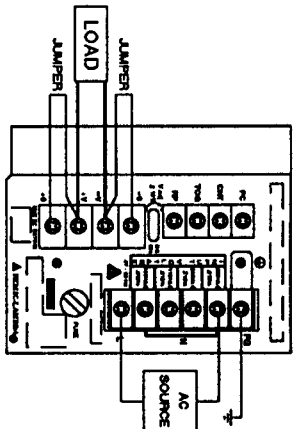
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NOTES

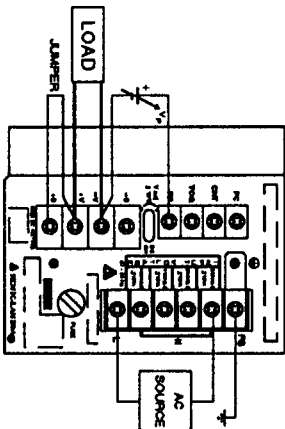
- *1 : At 100 VAC and maximum Output Power.
- *2 : For cases where conformance to various safety specs. (UL, CSA, VDE, etc.) are required, input voltage will be 250VAC max. and frequency range 47 ~ 63Hz.
- *3 : Floating output or grounded +V or -V Terminal.
- *4 : Foldback current limit with automatic recovery
- *5 : See Outline Drawings
- *6 : OVP circuit will shut down output, manual reset (line recycle).



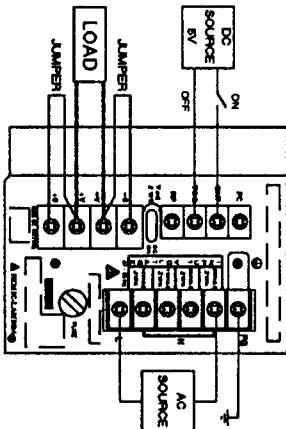
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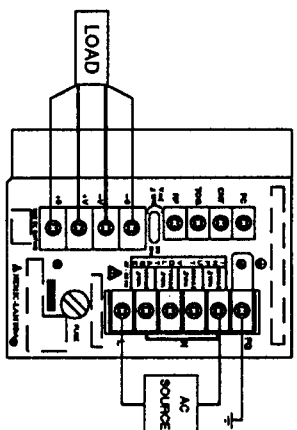
A.



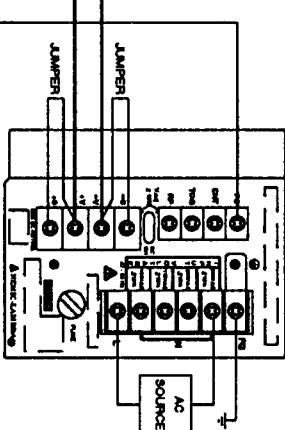
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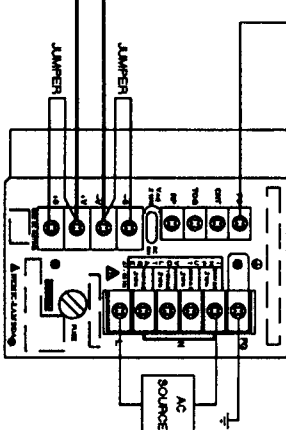
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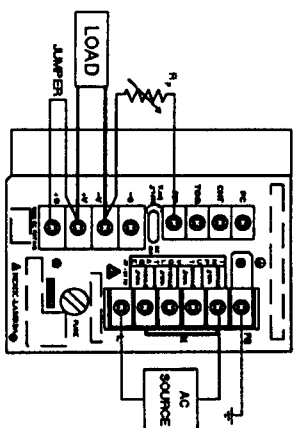
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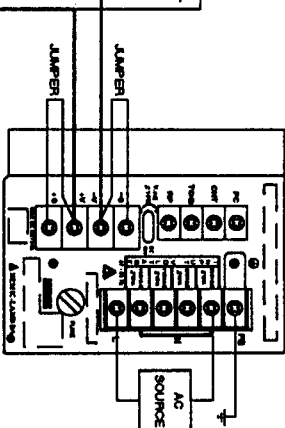
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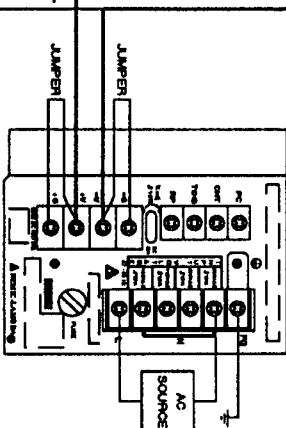
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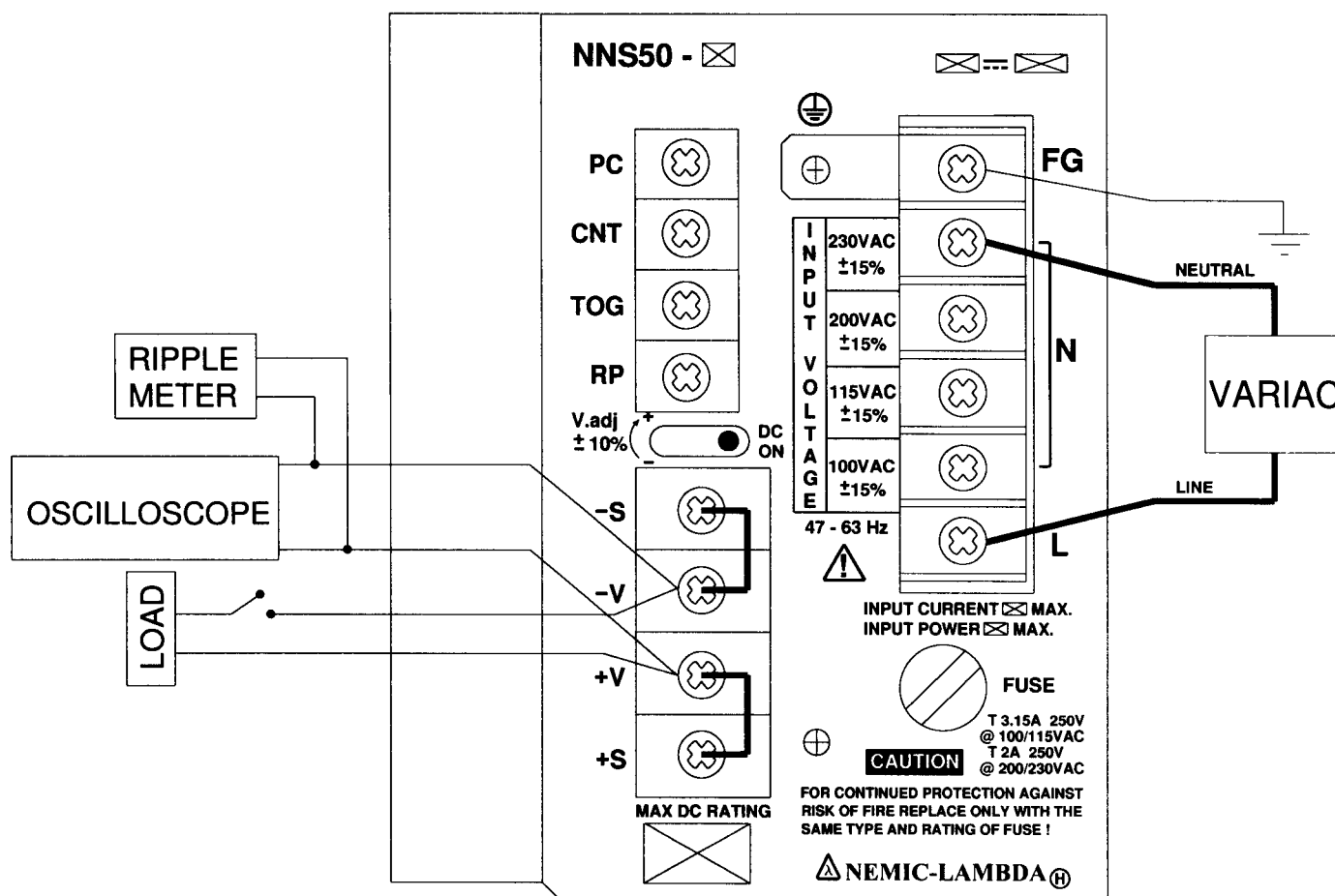
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- CONNECTIONS DIAGRAM
- LOCAL SENSING
 - REMOTE SENSING
 - RESISTIVE PROGRAMMING (LOCAL SENSE) /
 - VOLTAGE PROGRAMMING (LOCAL SENSE)
 - REMOTE CONTROL ON / OFF (LOCAL SENSE)
 - PARALLEL OPERATION WITH CURRENT SHARE (LOCAL SENSE)
 - SERIES OPERATION (LOCAL SENSE) EXTERNAL DIODES RATING: 10A, 50V

- NOTES:
- NNS50 MODEL IS NOT RECOMMENDED FOR CONSTANT CURRENT LOADS.
 - MAX. CAPACITIVE LOAD RECOMMENDED:
NNS50-5: 27,000uF NNS50-12: 10,000uF NNS50-15: 10,000uF NNS50-24: 3,000uF
 - CONNECTIONS DIAGRAMS SHOWN HERE FOR 230VAC OPERATION.
FOR OTHER INPUT VOLTAGES, CONNECT NEUTRAL LEAD TO THE
APPROPRIATE "N" CONNECTION ON THE INPUT TERMINAL.

CONNECTIONS FOR PERFORMANCE CHECKS



NOTES:

1. REGULATION AND RIPPLE METERS MUST NOT BE GROUNDED THROUGH THREE-WIRE LINE CORD TO GROUND.
2. PERFORM CHECKS WITH LOCAL SENSING CONNECTIONS ONLY.
3. DIAGRAM IS SHOWN FOR 230VAC. FOR OTHER VOLTAGES, CONNECT THE NEUTRAL LEAD TO THE APPROPRIATE "N" CONNECTION ON THE INPUT TERMINAL.
4. POWER SUPPLY IS SUPPLIED WITH 3.15A FUSE FOR 85 ~ 132VAC OPERATION. 2A FUSE FOR 170 ~ 265VAC OPERATION IS SUPPLIED IN THE PACKAGE.

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SAFETY INSTRUCTIONS

1. FUSE RATING: T3.15A 250V @ 100/115VAC, T2A 250V @ 200/230VAC.
2. POWER SUPPLY MUST BE SECURED TO THE CHASSIS OF THE END USE EQUIPMENT BY 4 SCREWS, INSERTED INTO THREADED HOLES IN THE MOUNTING SURFACE OF THE POWER SUPPLY ENCLOSURE. (REFER TO OUTLINE DRWG.).
3. MAX. LEAKAGE CURRENT OF THE END USE EQUIPMENT SHOULD NOT EXCEED 3.5mA.

CAUTION: FUSE MUST BE REPLACED BY AUTHORIZED SERVICE PERSONNEL ONLY!

CE MARK

1. NNS50 SERIES IS INTENDED FOR PROFESSIONAL INSTALLATION WITH HOST EQUIPMENT AND MUST NOT BE USED AS A STAND ALONE PRODUCT.
2. CE MARKING, WHEN APPLIED TO A PRODUCT COVERED BY THIS MANUAL INDICATES COMPLIANCE WITH THE LOW VOLTAGE DIRECTIVE ONLY.

SICHERHEITSHINWEISE

VOR ANSCHLUSS AN DAS NETZ AUFSTELLANLEITUNG BEACHTEN!

1. ABSICHERUNG: T3.15A 250V @ 100/115VAC, T2A 250V @ 200/230VAC.
2. DIE BEFESTIGUNG DES NETZGERÄTES IN DER END-ANLAGE ERFOLGT DURCH 4 SCHRAUBEN. IM NETZTEIL EINGESETZTE EINPRESSMUTTERN AUF DER BEFESTIGUNGSSEITE MUSSEN VERWENDET WERDEN. (SIEHE MASSZEICHNUNG).
3. DER MAXIMALE ABLEITSTROM DER END-ANLAGE DARF 3.5mA NICHT UEBERSCHREITEN.

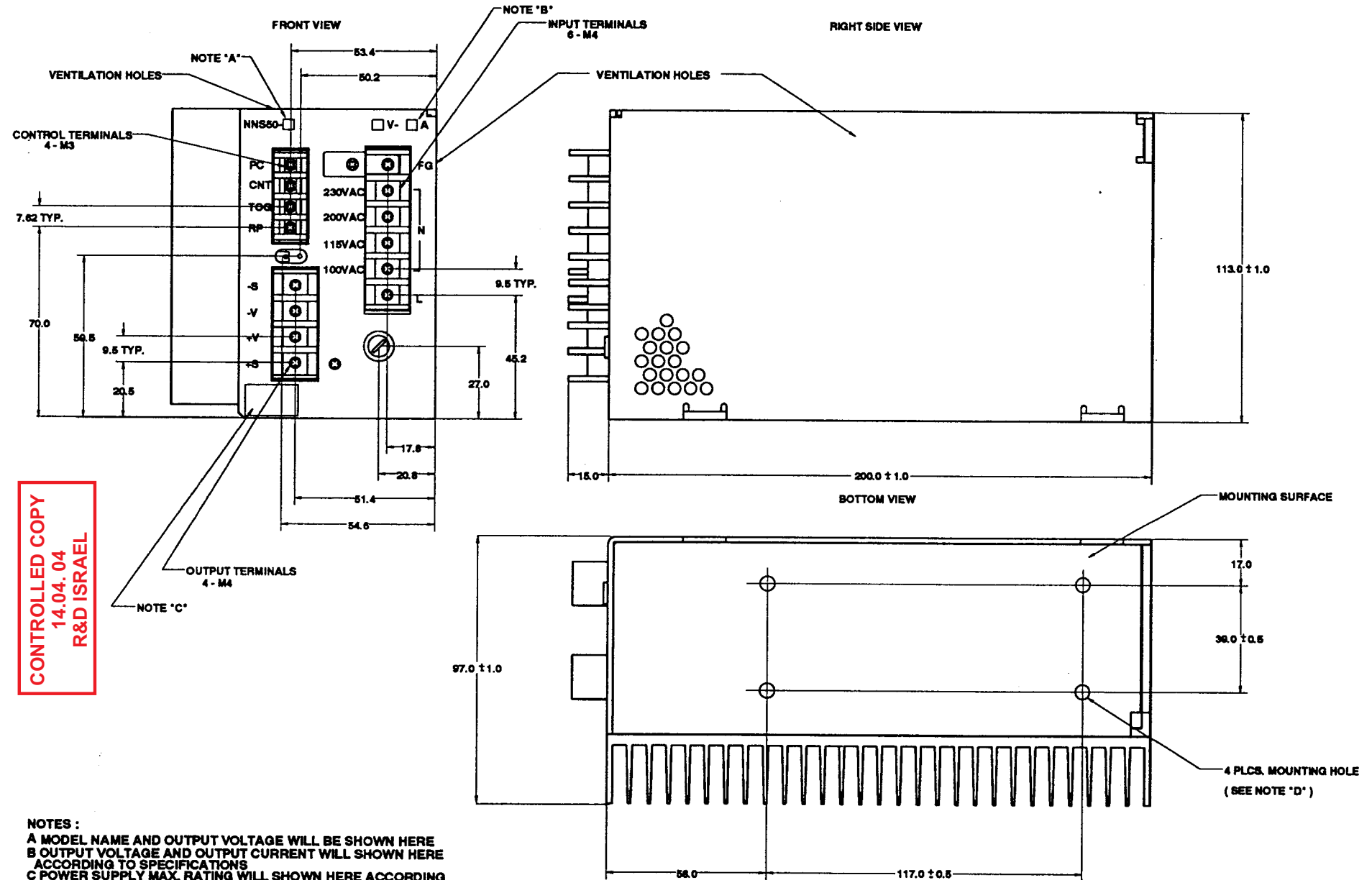
ACHTUNG

AUSTAUSCH DES SICHERUNGSEINSATZ NUR DURCH GESCHULTES FACHPERSONAL !

DRWG.NO. IA507-04-03A 3.

DWG.	10 APRIL 97 Doron	CHK.	Doron Peled Apr-10-97
ENGR.	10 APRIL 97 Doron	APPR.	Doron Peled Apr-10-97

NNS - 50



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NOTES :
A MODEL NAME AND OUTPUT VOLTAGE WILL BE SHOWN HERE
B OUTPUT VOLTAGE AND OUTPUT CURRENT WILL SHOWN HERE
ACCORDING TO SPECIFICATIONS
C POWER SUPPLY MAX. RATING WILL SHOWN HERE ACCORDING
TO SPECIFICATIONS
D M4 TAPPED HOLE (4) FOR CHASSIS MOUNTING
(SCREWS MUST NOT PROTRUDE INTO P.S. MORE THAN 6 mm)