

NNS - 30 Instruction Manual

Dwg. No.	IA501-04-01H
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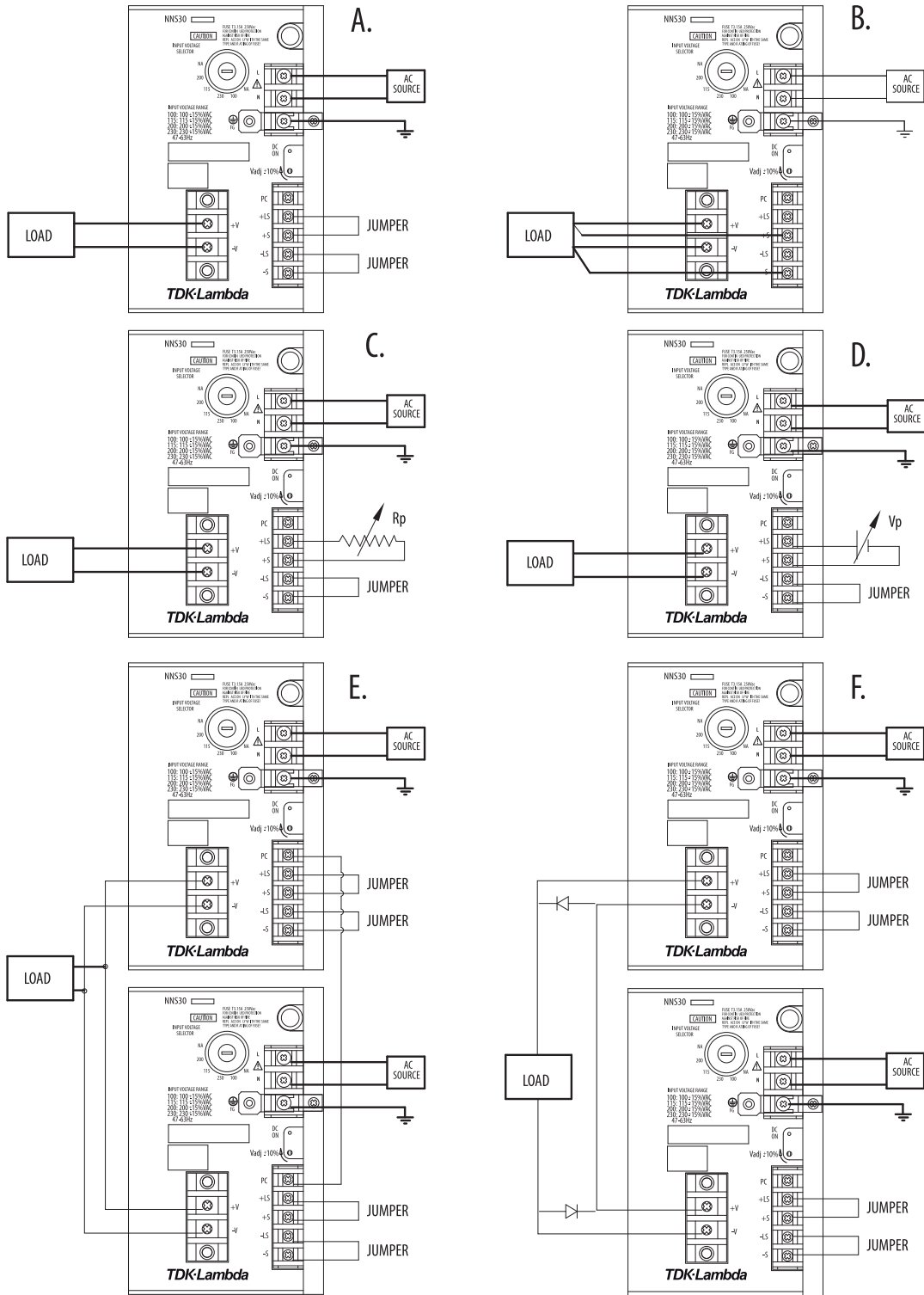
Items		Model	Model				
			NNS 30-5	NNS 30-12	NNS 30-15	NNS 30-24	NNS 30-48
1	Nominal Output Voltage	V	5	12.0	15.0	24.0	48.0
2	Maximum Output Current	A	6	4.0	3.4	2.3	1.1
3	Maximum Output Power	W	30	48	51	55.2	52.8
4	Efficiency (Typ) (*1)	%	35%	45%	46%	50%	54%
5	Input Voltage Range (*2)	-	100: 85~115VAC 115: 98~132VAC 47~63Hz 200: 170~230VAC 230: 195~265VAC				
6	Input Current (Typ) (*1)	A	1.14	1.41	1.47	1.45	1.35
7	In-rush Current (Typ)	A	20A@ 100VAC 10A@ 200VAC, cold start				
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	4.8mV
11	Maximum Load Regulation	mV	1.5mV	3.6mV	4.5mV	7.2mV	14.4mV
12	Over Current Protection (*4)	A	6.30~7.80	4.20~5.20	3.57~4.42	2.42~3.00	1.15~1.43
13	Over Voltage Protection Crowbar Type (*6)	V	6.0~7.2V	14.5~17.2V	18.1~21.5V	29.0~34.3V	58.1~68.6V
14	Remote Programming	-	Volt/Volt, 1000Ω / Volt typ. +S to +LS Terminals				
15	Remote Sensing	-	Possible, Via +S, -S Terminals				
16	Remote ON/OFF Control	-	N.A.				
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...3.75K VAC Input-Chassis...2.5K VAC for 1 min. @ 20mA				
26	Insulation 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 1h. each				
28	Shock	-	Less than 20 G				
29	Weight	gm	2930				
30	Size (W*H*D) (*5)	mm	80 x 124 x 178				
31	EMI	-	Designed to meet EN55022-1, CISPR-22, FCC Part 15, VCCI-class B				
32	Regulatory Agency	-	Designed to meet IEC/EN/UL 60950-1 Ed.2				

NOTES

- * 1: At 100VAC and maximum Output Power.
- * 2: For cases where conformance various safety specs. (UL, UL-C, TUV, 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 recover for each output.
- * 5: See Outline Drawings.
- * 6: For each output - OVP circuit will shut down output, manual reset. (Line recycle)

IMPORTANT,

See Installation Instructions Before Connecting to the Supply.



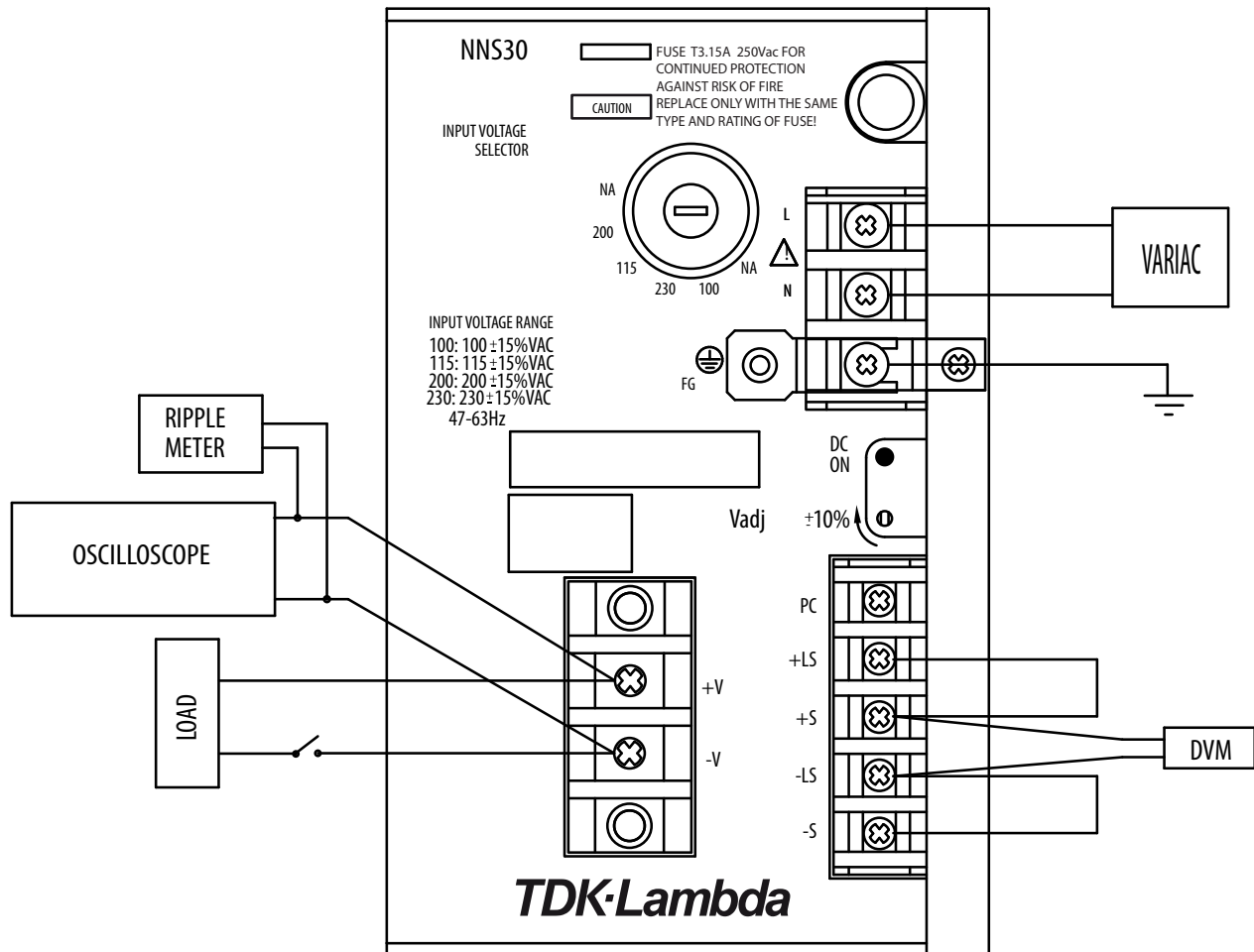
CONNECTIONS DIAGRAM

- A. LOCAL SENSING.
- B. REMOTE SENSING.
- C. RESISTIVE PROGRAMMING (LOCAL SENSE).
- D. VOLTAGE PROGRAMMING (LOCAL SENSE).
- E. PARALLEL OPERATION WITH CURRENT SHARE (LOCAL SENSE).
- F. SERIES OPERATION (LOCAL SENSE) EXTERNAL DIODES RATING: 3A, 50V.

NOTES:

1. NNS30 MODEL IS NOT RECOMMENDED FOR CONSTANT CURRENT LOADS.
2. MAX. CAPACITIVE LOAD RECOMMENDED:
 NNS30-5: 15,000uF NNS30-12: 8,200uF
 NNS30-15: 8,200uF NNS30-24: 3,000uF
 NNS30-48: 1,500uF

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.

SAFETY INSTRUCTIONS -NNS30:

1. FUSES MUST BE CHANGED BY AUTHORIZED SERVICE PERSONNEL ONLY!

F1: T3.15A 250V FOR 100/115V ~ (SUPPLIED IN THE PACKAGE)
 2A 250V FOR 200/230V ~ (ASSEMBLED INTO THE POWER SUPPLY AT SHIPMENT)

F2: 5V 20A 125V
 12V, 15V 15A 125V
 24V, 48V 10A 125V

2. THE POWER SUPPLY SHOULD BE INSTALLED IN SUCH A WAY THAT THE FUSE HOLDER IS NOT OPERATOR ACCESSIBLE.
3. POWER SUPPLY MUST BE SECURED TO THE CHASSIS OF THE END USE EQUIPMENT BY 4 SCREWS INSERTED INTO THREADED OPENINGS IN THE BOTTOM OF THE POWER SUPPLY ENCLOSURE (REFER TO OUTLINE DRWG.)
4. MAXIMUM LEAKAGE CURRENT OF END-USE EQUIPMENT SHOULD NOT EXCEED 3.5mA.

CE MARK

1. NNS30 SERIES IS INTENDED FOR PROFESSIONAL INSTALLATION WITHIN 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.

