

Electronic Instrumentation for Nuclear, Astroparticle Physics and Industrial Electronics.

NIM crate 5 units

Model NC150W.

NC150W

WARRANTY

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NAICAM SRL warrants the following items for one year from the date of shipment: probes, cables, and documentation of specified equipment.

During the warranty period, we will, at our option, either repair or replace any product that proves to be defective.

To exercise this warranty, write or call your local NAICAM SRL representative, or contact NAICAM SRL headquarters in Italy. You will be given prompt assistance and return instructions. Send the product, transportation prepaid, to the indicated service facility. Repairs will be made and the product returned, transportation prepaid. Repaired or replaced products are warranted for the balance of the original warranty period.

LIMITATION OF WARRANTY

This warranty does not apply to defects resulting from product modification without NAICAM SRL express written consent, or misuse of any product or part.

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1. GENERAL DESCRIPTION.

1.1 DESCRIPTION.

The NAICAM Mod. NC150 is a 5U non ventilated NIM crate. This 19-inch module has 12 slot crate and available with or without pluggable 150W power supply. The Unit can be powered by 110 or 230 VAC, 50-60 Hz.

1.2 PERFORMANCE.

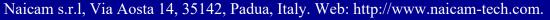
- The crate has 12 slots 19" x 5U enclosure ventilated NIM bin. All 12 NIM connectors that are connected in parallel each voltage.

Pluggable linear power supplies NPS150W:

- 1. Dimensions: 2,5 width NIM Standard position, height 183, Depth 249 mm.
- 2. Weight: 5 Kg.
- 3. Maximum output power 150W.
- 4. Voltage outputs specification table 1:



Voltage	Max. Current(A)	Over/Under Protection	Over Load Protection	Over Heat Protection
	Current(A)	(%)	(A)	(C)
+ 24 Volt	1,5	130/70	2	75(+/-3)
- 24 Volt	1.5	130/70	2	75(+/-3)
+12 Volt	3	130/70	4	75(+/-3)
- 12 Volt	3	130/70	3,5	75(+/-3)
+6 Volt	5	130/70	6	75(+/-3)
- 6 Volt	5	130/70	6	75(+/-3)





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5. Ripple is less $\pm 6V < 2 \text{ mVpp}$ $\pm 12 \text{ V} < 3 \text{ mVpp}$ $\pm 24 \text{ V} < 5 \text{ mVpp}$

All measurement in 20 MHz Bandwidth.

6. Load Regulation	< 0.3 % for 10-100% load change, < 0.05 % for $\ \pm 10\%$ load change		
7. Transient response	0.10 ms for recovery to $\pm 1\%$ of voltage for 10- 100% load change		
8. Fuse 230 VAC	2 A, class T.		

9. Storage temperature -10 +70C.

10. Recovery time: +/- 0.1% 100 us (for 12, 24 Volt); +/- 0,5% 100 us (+/- 6 Volt).

2. TECHNICAL SPECIFICATIONS NPS150W.

2.1 OPERATING INSTRUCTIONS.

The NIM module **NSP150W** is a 2,5 **NIM** size plug-in power supply. The module has all 6 voltages with a maximum output power 150 Watt. This module has over/under voltage, overload and overheat protection and can be adapted for a different input AC voltages 100/115/210/240 VAC, 50-60 Hz. On the front panel the status of power supply by GREEN/RED LED is indicated.

The module has soft start time 0,5 ms and correspond CE isolation standard EN61010.

2.2 INPUT/OUTPUT CONNECTIONS AND SIGNAL CHARACTERISTIC

The NPS300W power supply has one connection (Power Connector) with backplane of the crate, DSUB 25 connector with FAN unit and Power Plug (220VAC). All 12 BIN connectors have standard pin out according NIM standard.

PIN	Function	PIN	Function
1	+3 V	23	Reserved
2	- 3 V	24	Reserved
3	Spare bus	25	Reserved
4	Reserved bus	26	Spare
5	Coaxial	27	Spare
6	Coaxial	28	+24 V
7	Coaxial	29	- 24 V
8	200 V DC	30	Spare bus
9	Spare	31	Spare
10	+6 V	32	Spare
11	- 6 V	33	117 V AC
12	Reserved bus	34	Power return ground
13	Spare	35	Reset (Scaler)
14	Spare	36	Gate
15	Reserved	37	Reset (Auxiliary)
16	+12 V	38	Coaxial
17	- 12 V	39	Coaxial
18	Spare bus	40	Coaxial
19	Reserved bus	41	117 V AC (neutral)
20	Spare	42	High-quality ground
21	Spare	G	Ground guide pin
22	Reserved		

Table 2. Standard Pin out NIM BIN connector.

Note: The 117 VAC is optional voltage. Usually if the crate is used out of UE the client must specified in order this alimentation in crate. Blue marked pins if wired in parallel in crate.

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2.3 POWER REQUIREMENTS

The input power 220VAC + 10%, 50 Hz. The power input can be modified to 110VAC+10% in ordering. Maximum input power is less then 200 Watt is determined by input fuse 1 A.

2.4 DIMENSION AND WEIGHT

DIMENSIONS

The crate has 19" width and 5U height dimensions. The maximum deep of module is 335 mm. Module enclosure corresponding to standard DOE/ER-0457T.

WEIGHT

Common crate weight with NPS150W power supply is 15 kg



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For More information on NAICAM products and applications contact your local NAICAM representative:

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