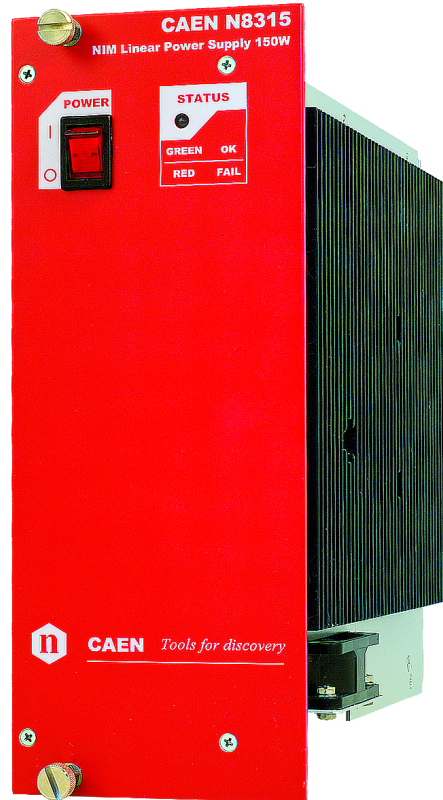


# N8315

## NIM Linear Power Supply 150W



## Features



- Slot linear power supply (150W)
- 2.5 NIM slot width
- Short circuit protection
- Over / Under voltage protection
- Front panel with status LED and mains switch

## Description

The CAEN Mod. **N8315** is a 150W NIM Linear Power Supply, suitable to power any NIM crate; the module is two NIM units wide.

Safety features includes:

- short circuit protection,
- over/undervoltage protection,
- over temperature protection.

The Unit is powered by 115 or 230 Vac, 50 ÷ 60 Hz. On the front panel the status of the Power Supply is indicated by green/red LED.

## Technical Specifications

### Mechanics

Double width NIM mechanics

### Mains input

230 VAC or 115 VAC, 50-60 Hz

### Maximum Total Output Power

150 W

### Power requirements

280W at full load

### Fuse External

External 2 A, class T (230 VAC)

### Output power

5 A @  $\pm 6V$  ; 3 A @  $\pm 12 V$  ; 1.5 A @  $\pm 24 V$

### Load Regulation

- < 0.5 % for 10-100% load change, < 0.02 % for  $\pm 10\%$  line change
- $\pm 6V$ : <30 mV for 10-100% load change, <1mV for  $\pm 10\%$  line change
- $\pm 12 V$ : <60 mV for 10-100% load change, <2mV for  $\pm 10\%$  line change
- $\pm 24V$ : <120 mV for 10-100% load change, <5mV for  $\pm 10\%$  line change

### Isolation

CE acc. to EN 61010

### Ripple

- $\pm 6V$  < 5 mVpp
- $\pm 12 V$  < 8 mVpp
- $\pm 24 V$  < 10 mVpp

### Transient response recovery

0.15 ms for recovery to  $\pm 1\%$  of voltage for 10-100% load change

### Output Impedance

0.6 m $\Omega$  static

### Output Voltage Characteristics

Dual tracking for all  $\pm DC$  outputs; Soft start; DC output calibration (manually)

### Output Current Characteristics

OVC protection / Trip Off

### Over Voltage Protection

Trip Off when the output voltage > 130% of nominal voltage

### Under Voltage Protection

Trip Off when the output voltage < 70% of nominal voltage

### Over Current Protection

Trip Off when current: > 6A@+24V, > 2A@-24V, > 6A@+12V, > 3.75A@ 12V, > 10A@±6V

### Over Temperature Protection

Trip Off when temperature > 75° C

### Temperature sensors

nr.1

### Status control

Status control Fail/Status LED signal: RED: Fail, GREEN: System is on and power supplies are functioning properly

### Switches

Power 1 (On) / 0 (Off)

### Operation

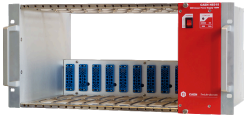
0÷45°C without derating

## Ordering Options

Code	Description	
WN8315WAAAAA	N8315 - NIM Linear Power supply 150W ( $\pm 6V$ 5A, $\pm 12V$ 3A, $\pm 24V$ 1.5A)	RoHS
WPERS0831501	N8315 Customization - 110VAC Input Adapting	RoHS

## Related Products

### NIM8302



5U 10 slot 150 W Compact Crate

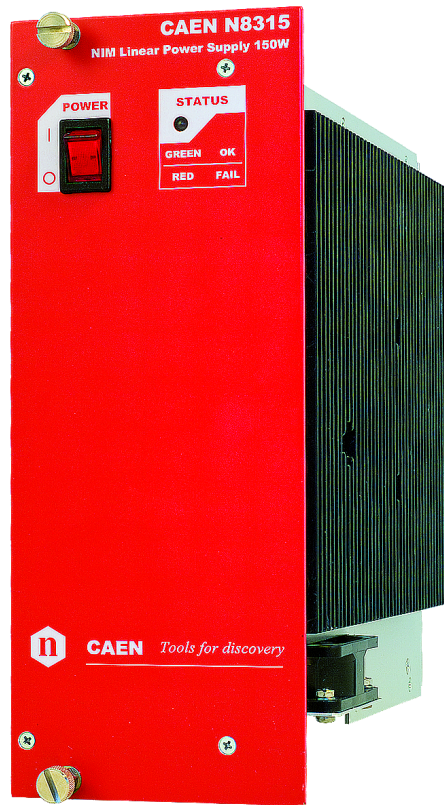
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### NIM8302P



5U 5 slot 150 W Portable Crate

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