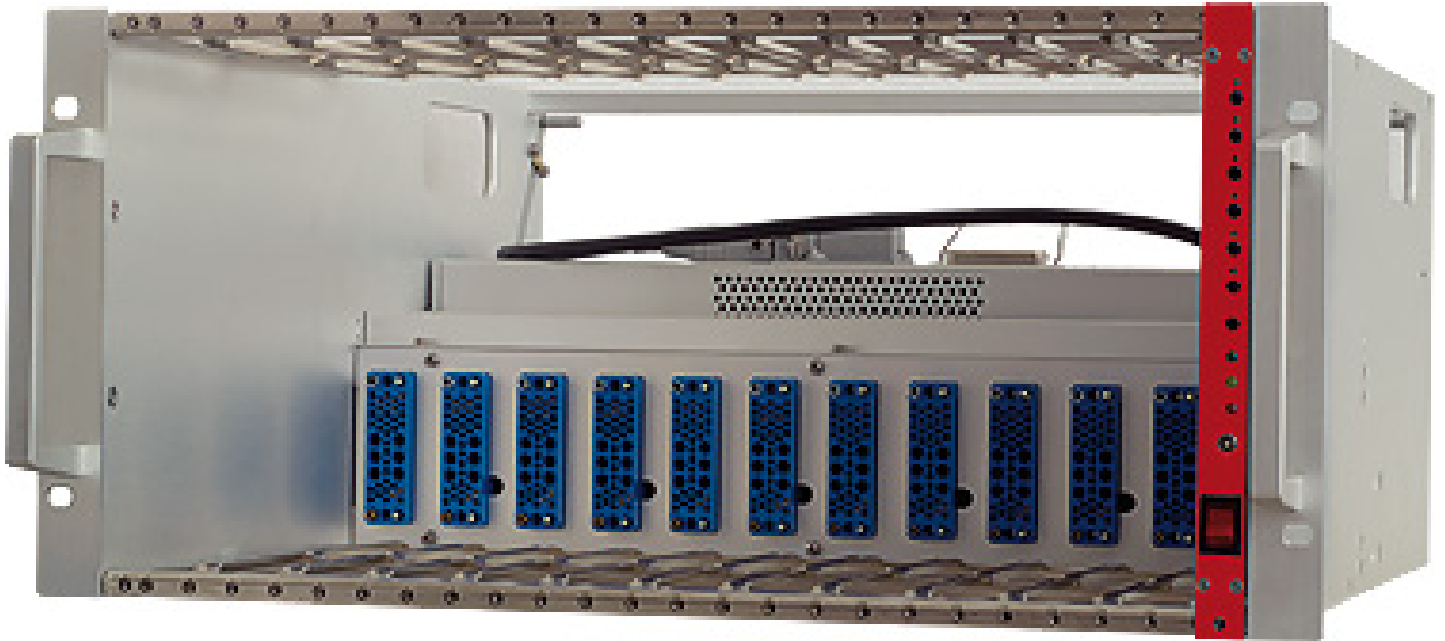


NIM8303

5U 12 slot 300/600 W Crate



Features



- 19" x 5U enclosure
- 12 slot non-ventilated NIM bin
- Pluggable linear power supplies (300/600 W)
- 230 VAC or 115 VAC, 50-60 Hz input available
- Equipped with long-life NIM connectors
- Short circuit protection

- **Description** Over voltage protection

- Over temperature protection

The **CAEN Mod. NIM8303** is a 5U Non ventilated NIM crate (19inch-12 slot) available with both pluggable 300W and 600W power supplies. Safety features include: short circuit protection, Over / Undervoltage protection, Over temperature protection.

The Unit is powered by 110 or 220 Vac, 50 ÷ 60 Hz. The Mod NIM8303 is equipped with a Control panel with mains switch, status LEDs, FAIL output (LEMO 00) and test pin for all DC voltages.

Technical Specifications

Mechanics

19" x 5U bin, 12 slot, non ventilated

Mains input

220 VAC or 115 VAC, 50-60 Hz.

Fuse External

4 A Class T @ 300W 230 Vac 8 A ClassT @ 300W 115 Vac
6.3 A Class T @ 600W 230 Vac 15 A Class T @ 600W 115 Vac

Output power

300W:

17A @ ±6V
3.4A @ ±12V
3.4A @ ±24V

600 W:

45A @ ±6V
8A @ ±12V
8A @ ±24V

20A @ ±6V
15A @ ±12V
8A @ ±24V

45A @ ±6V
18A @ ±12V
±24V not present

Isolation

CE acc. to EN 61010

Power requirements

610W and 1150W (for 300W and 600 W) at full load

Status control

±6V, ±12V, ±24V LED and test point; GND test point; ALARM signal, STATUS, OVERHEAT and OVERTEMPERATURE LED

Output Current Characteristic

Foldback ($I_{sc} < 3 A$ $I_{max} = I_{nominal} + 15\%$) and Trip Off

Output Impedance

0.3 mohm static

Output Voltage Characteristic

dual tracking for all ±DC outputs
Soft start
DC output calibration (manually)

Noise and ripple

< 3 mVpp @ $\pm 6\text{V}$, $\pm 12\text{V}$, $\pm 24\text{V}$ (Typ.)

< 5 mVpp @ $\pm 6\text{V}$, $\pm 12\text{V}$, $\pm 24\text{V}$ (Max.)

Temperature sensors

Power Supply: nr. 4 @ 300W nr. 2 @ 600W

Over Voltage Protection

Trip Off when the output voltage > 105% of nominal voltage

Under Voltage Protection

Trip Off when the output voltage < 95% of nominal voltage

Over Temperature Protection

Trip Off when temperature of heat sink > 70° C or when transformer temperature > 110° C

Operation

0 ÷ 40°C without derating

Ordering Options

Code	Description	
WNIM8303300W	NIM8303/30 - NIM 5U crate, 12 slot, 300W ($\pm 6V$ 17A, $\pm 12V$ 3.4A, $\pm 24V$ 3.4A)	RoHS
WNIM8303600W	NIM8303/60W - NIM 5U crate, 12 slot, 600W ($\pm 6V$ 45A, $\pm 12V$ 8A, $\pm 24V$ 8A)	RoHS
WNIM8303600Y	NIM8303/60Y - NIM 5U crate, 12 slot, 600W ($\pm 6V$ 20A, $\pm 12V$ 15A, $\pm 24V$ 4A)	RoHS
WNIM8303600Z	NIM8303/60Z - NIM 5U crate, 12 slot, 600W ($\pm 6V$ 45A, $\pm 12V$ 18A, NO 24V) (Discontinued)	RoHS

Related Products

A83XX



General Purpose 1U Fan Unit

Gallery



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