

NIM Portable 150 W



NIM Portable 150 W Bulletpoints

- 150 W linear regulated UEP15 power supply
- Outputs: ± 6 V (5 A), ± 12 V (3 A), ± 24 V (1.5 A), optional 115 VAC (0.25 A)
- 5 slots for NIM modules
- Compact 273 × 273 mm housing
- Lightweight and portable design
- Low-noise performance for sensitive electronics

Technical Information

Electrical Parameters:	
Inputs	
Mains input range	100 VAC / 110 VAC / 115 VAC / 220–230 VAC / 240 VAC (depending on transformer tap)
Input current	-
Inrush current	-
Input fuse	- / external fuse required
Outputs	
Number of channels	6 DC outputs (+6 V, -6 V, +12 V, -12 V, +24 V, -24 V) + optional 115 VAC
Output Voltages	+6 V / 5 A, -6 V / 5 A, +12 V / 3 A, -12 V / 3 A, +24 V / 1.5 A, -24 V / 1.5 A, 115 VAC / 0.1 A
Output Power	150 W total
Overvoltage protection	Yes — over-/undervoltage protection with relay cut-off
Overcurrent protection	Yes — shutdown in case of overload or short circuit
Ripple and Noise	$\pm 6\text{ V} < 3\text{ mVpp}$, $\pm 12\text{ V} < 5\text{ mVpp}$, $\pm 24\text{ V} < 10\text{ mVpp}$
Efficiency	- (linear regulated)
Monitoring & Control	
Voltage	Over-/undervoltage protection with shutdown
Current	Not separately monitored
Status LED	Yes — LEDs for status and failure
Isolation	
Input - Output	CE-compliant, exact isolation not specified
Input - Chassis	Solid ground ("clean earth")
Output - Chassis	-
Environment and Cooling:	
Operation temperature:	0 °C to +50 °C (derating above 40 °C by 2 %/°C, max. 60 °C)
Cooling media	Convection-cooled, rigid non-ventilated chassis
Mechanical Parameters	
Dimensions	Portable NIM bin, approx. 3U × ½ width, depth ~ 300 mm (spec values vary)
Weight	Approx. 8 kg
Input Connector	Standard AC input
Output connector	Standard NIM backplane connectors
Mounting	Portable housing with handle (desktop use)
Other	
Communication Protocols	Optional CAN-bus interface for DC voltage monitoring and remote on/off (via rear 9-pin Sub-D connector)

Reliability	Protection against overtemperature, over-/undervoltage, and overcurrent Robust portable design with convection cooling
Warranty / Maintenance	No specific information provided

Electrical, Environmental & Compliance Data

Main Power

- Output Voltages / Currents: +6 V / 5 A, -6 V / 5 A, +12 V / 3 A, -12 V / 3 A, +24 V / 1.5 A, -24 V / 1.5 A, 115 VAC / 0.1 A
- Current max ratings per slot/bin: ± 6 V 13 A / 26 A, ± 12 V 13 A / 13 A, ± 24 V 13 A / 13 A, GND 13 A, 115 VAC 0.5 A
- Regulation (load change 10–100 %): ± 6 V < 0.2 %, ± 12 V / ± 24 V < 0.1 %
- Regulation (line change ± 10 %): < 0.02 %
- Ripple & Noise (full load): ± 6 V < 3 mVpp, ± 12 V < 5 mVpp, ± 24 V < 10 mVpp
- Recovery time (10–100 % load): < 0.15 ms
- Output impedance (static/dynamic @ 100 kHz): 1.5 m Ω / 0.5 Ω
- Pre-amp power output via DSUB9

Auxiliary Power

- Pre-amp power output via DSUB9

Compliance

- NIM standard (AEC report TID20893)
- CE conformity

Environmenta

- Operating temperature: 0 °C to +50 °C (derating above 40 °C by 2 %/°C, max. 60 °C)
- Storage temperature: –20 °C to +80 °C
- Clean earth wiring: 0.25 mm²
- Chassis: Non-ventilated rigid chassis, portable housing with handle, convection cooling

Communication / Monitoring

- Optional CAN-bus interface for DC voltage monitoring and remote on/off (rear 9-pin Sub-D connector)

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