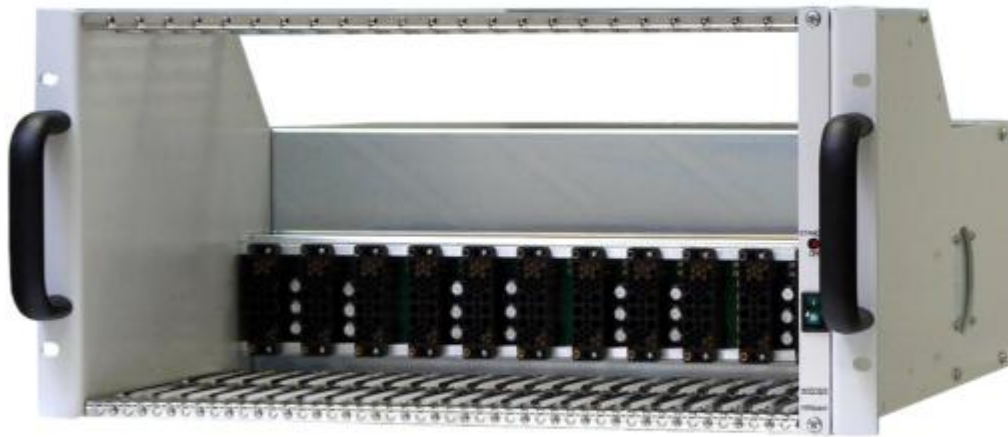


NIMpact 300 W



NIMpact 300 W Bulletpoints

- 300 W linear regulated power supply
- Outputs: ± 6 V, ± 12 V, ± 24 V, optional 115 VAC
- 12 slots for NIM modules
- 5U height, 19" rack-mount design
- Optional fan tray for improved cooling
- Low-noise performance for precision electronics

Electrical Parameters:	
Inputs	
Mains input range	106–230 VAC ±15 % (90...265 VAC)
Input current	Sinusoidal, 16 A for “H” input, 32 A for “K” input
Inrush current	Limited to rated input current (cold start)
Input fuse	External (internal on request)
Outputs	
Number of channels	4 or 8 fully floating channels (depending on configuration)
Output Voltages	0–8 V, 0–16 V, 0–30 V, 0–60 V, 0–120 V (module-dependent)
Output Power	50–100 W per channel, total 300 W max.
Overvoltage protection	Crowbar protection at 125 % of max. output voltage
Overcurrent protection	Adjustable to any lower level
Ripple and Noise	< 3 mVpp (0–20 MHz)
Efficiency	75–85 % depending on used modules
Monitoring & Control	
Voltage	controlled via MPOD controller over Ethernet (TCP/IP) and USB
Current	controlled via MPOD controller over Ethernet (TCP/IP) and USB
Status LED	Per channel
Isolation	
Input - Output	3kV _{AC}
Input - Chassis	-
Output - Chassis	-
Environment and Cooling:	
Operation temperature:	0..50°C ambient
Cooling media	Air / Water (depending on chassis configuration)
Mechanical Parameters	
Dimensions	Fits into MPOD mini crate (3U or 5U, depending on model)
Weight	~2 kg per module
Input Connector	AC mains via rear panel (IEC or Harting type, depending on system)
Output connector	2 × 37-pin Sub-D (for DC and sense, 4 or 2 channels each)
Mounting	Slide-in module for MPOD system
Other	
Communication Protocols	CAN / SNMP
Reliability	(MTBF)

Electrical, Environmental & Compliance Data

Main Power

- Output Voltages / Currents: ± 6 V, ± 12 V, ± 24 V, optional 115 VAC (higher current capacity than 150 W version)
- 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

Auxiliary Power

- Pre-amp power output via DSUB9

Compliance

- NIM standard (AEC report TID20893)
- CE conformity

Environmental

- Operating temperature: 0 °C to +50 °C (derating > 40 °C by 2 %/°C to max. 60 °C)
- Storage temperature: -20 °C to +80 °C
- Clean earth wiring with 0.25 mm²
- Non-ventilated rigid chassis or with fan tray

Communication / Monitoring

- Optional CAN-bus interface for DC voltage monitoring and remote on/off

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