

Model 70XX

NIM-BIN / Power Supplies



FEATURES

- NIM Standard
- Up to 300 W Capability
- Operating voltage 105 to 250V configurable
- Unsurpassed quality and reliability
- Thermal Protection
- Optional Overvoltage Protection for $\pm 6V$

DESCRIPTION

The Model 70XX consists of a NIM-BIN and attached power supply that range from 60 Watt to 300 Watt. The NIM-BIN provides space for 12 single width NIM-Modules (Nuclear Instrument Modules) and supplies either four- or six DC-voltages and 117V AC. Other size NIM-Modules of double- and triple width can also be accommodated.

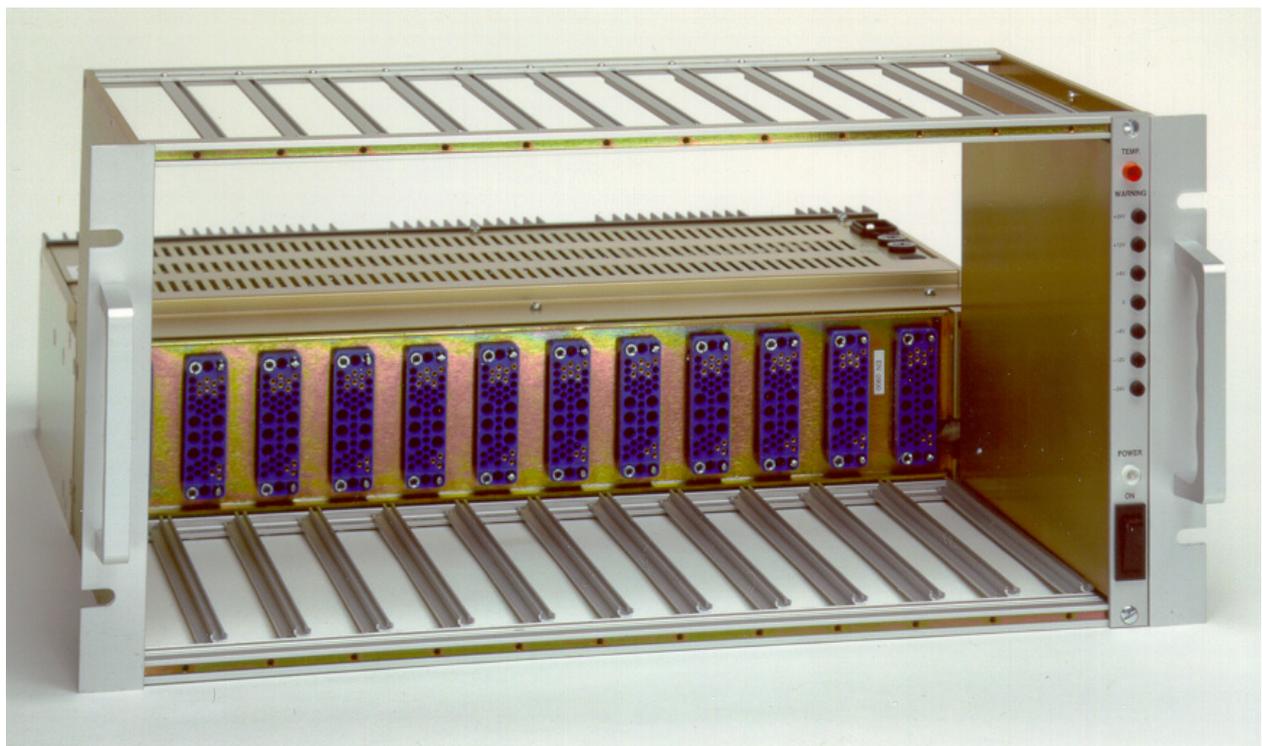
The 12 rear connectors are wired to provide $\pm 6V$, $\pm 12V$, $\pm 24V$ DC and 117V AC. The detachable power supply can be operated on line voltages ranging from 105V to 250V. The line voltage input can be set to six positions by wiring change.

Test points for the DC-voltages, the ON/OFF-switch, and monitor lights for power and temperature warning are provided on the control panel. The temperature



Portable NIM-BIN Model 7018/9 with PowerSupply

warning light indicates that the operating limit of 85°C has been reached. Exceeding a temperature of 125°C at the heat sink the power supply will switch off automatically. When safe operating conditions have been restored the powersupply will be fully operational again and the warning light will be off. The solid design of the mechanical parts and the very conservative dimensioning of the electronic components result in an outstanding quality and reliability. The typical mean time between failures is 10 years !!



NIM-BIN Rev5 09112006



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NIM-BINs and NIM-Powersupplies									
Standard NIM-BINs with Powersupplies - Rackmount Versions									
Voltages, Currents and Power ratings									
Model	+6V	-6V	+12V	-12V	+24V	-24V	117 V AC	Watt	OVP*
7022	5A	5A	2A	2A	1A	1A	0.5A	140	
7023	5A	5A	2A	2A	1A	1A	0.5A	140	±6V
7024	5A	5A	3A	3A	2A	2A	0.5A	160	
7025	5A	5A	3A	3A	2A	2A	0.5A	160	±6V
7030	10A	10A	3A	3A	2A	2A	0.5A	200	
7031	10A	10A	3A	3A	2A	2A	0.5A	200	±6V
7032	12.5A	12.5A	4A	4A	2.5A	2.5A	0.5A	300	
7033	12.5A	12.5A	4A	4A	2.5A	2.5A	0.5A	300	±6V
* Overvoltage protection									
NIM-Module Powersupplies (triple widths) for port. NIM-BINs and Mod. 7004/7006									
Voltages, Currents and Power ratings									
Model	+6V	-6V	+12V	-12V	+24V	-24V	117 V AC	Watt	
7014	3A	-	1A	1A	0.5A	0.5A	0.1A	70	-
7018	1A	1A	1.5A	1.5A	0.5A	0.5A	0.1A	70	-
Portable NIM-BIN's - Desktop Versions									
7018/9	Portable NIM-BIN for 7014/18 NIM Powersupply, free slots: 6 (9 w/o Powersupply)								
7018/12	Portable NIM-BIN for 7014/18 NIM Powersupply, free slots: 9 (12 w/o Powersupply)								
NIM-BIN's - Rackmount Versions w/o Powersupply									
7000	NIM-BIN, fully wired for +/-6V, +/-12V, +/- 24V, w/o Powersupply, free slots: 12								
7006	NIM-BIN, wired for 7014/18 NIM-Module Power Supply, free slots: 9 (12 w/o Powersupply)								

Controls and Connectors

Controls

Thermal Overload: A red warning light indicates when the temperature of the power supply is above 85 °C. An internal switch disables power when the temperature of the heat sink exceeds 125 °C. When the temperature returns to acceptable levels, power is automatically restored.

Connectors

Module Connectors: Twelve AMP 202516-3

Test Points: Control panel test points for the six regulated voltages and ground

Physical

Size: 48,26 x 21.7 x 52 cm, without handles, 56.5 cm incl. handles

Net weight: 15.5 kg max.

Shipping weight: 17.2 kg max.

SPECIFICATIONS

Line Voltage (internal wiring change): 105 / 117 / 130 / 220 / 235 / 250 V + 10%, -12%, 47/63 Hz

Output Voltage regulation < 0.05%, (+/- 6V 0.5%)

Longterm stability < 3 x 10⁻³

Temperature stability < 3 x 10⁻³ < 0.01 % / °C (0 °C to 60 °C)

Noise and Ripple < 3mVss / 3mVpp

Output impedance < 0.3 Ohm

Recovery time ±0.1% 100 usec, ±6V: ±1% 100 usec

Current limiting 120% (fold back type)

Short circuit current 25% of nominal current

Temperature range 0 - 50 °C (-3% / °C from 50 °C to 60°C)

Temperature warning Pilot Lamp

NIM-BIN