



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.

Features

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

Description

The 12 rear connectors are wired to provide +6V, +12V, +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 at the heat sink the power supply will switch off automa-

tically. 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-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

Model	+6V	-6V	+12V	-12V	+24V	-24V	117 V AC	Watt	OVP*
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	-

Model 7014: //DISCONTINUED//

Portable NIM-BIN's - Desktop Versions

Model	
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) //DISCONTINUED//

NIM-BIN's - Rackmount Versions w/o Powersupply

Model	
7000	NIM-BIN, fully wired for +/-6V, +/-12V, +/- 24V, w/o Powersupply, free slots: 12 //DISCONTINUED//
7006	NIM-BIN, wired for 7014/18 NIM-Module Power Supply, free slots: 9 (12 w/o Powersupply) //DISCONTINUED//

CONTROLS / CONNECTORS

Controls 7022 -7033

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 <math>< 3 \times 10^{-3}</math>

Temperature stability

<math>< 3 \times 10^{-3} < 0.01 \% / ^\circ\text{C}</math> (0 °C to 60 °C)

Noise and Ripple <math>< 3\text{mVss} / 3\text{mVpp}</math>

Output impedance <math>< 0.3 \text{ Ohm}</math>

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



Frontside



Rearside

CONTROLS / CONNECTORS

Controls 7018 + 7018/9

Connectors

Module Connectors: Six AMP 202516-3

Physical

Size: 34.0 x 26.5 x 32.2 cm

Net weight: 9.8 kg max.

Shipping weight: 11.5 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 < 3×10^{-3}

Temperature stability

< 3×10^{-3} < 0.02 % / °C (0 °C to 60 °C)

Noise and Ripple < 3mV ss / 3mV pp

Output impedance < 0.3 Ohm

Recovery time

$\pm 0.1\%$ 100 usec, $\pm 6V$: $\pm 1\%$ 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)