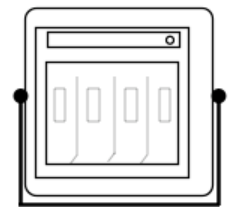


# Benchtop NIM Power Supply



B N C | m o d e l | A P - 3



M O D E L | A P - 3

- +/- 6, 12, 24 Volts
- Compact, Rugged, Lightweight
- Rear Storage Compartment
- Gain Portability For NIM Modules

**BNC****model****AP-3****SPECIFICATIONS**

**DC OUTPUT VOLTAGES** ±6 V, 4 A ea.; ±12 V, 1 A ea.; ±24 V, 0.5 A ea.; Maximum combined output 60 VA.

**OUTPUT ADJUSTMENT** DC Output voltages have a nominal adjustment range of:  
±0.5%; settable to ±0.05%  
±2%; settable to ±0.1%

**REGULATION** Better than ±0.1% for ±24 V and ±0.2% for ±6 V over line voltage variation of ±12%, no load to full load.

**RIPPLE AND NOISE** Less than 3 mV peak-to-peak as observed on a 50 MHz bandwidth scope.

**RECOVERY TIME AND STABILITY** Recovery: Less than 100 μs return with regulation limits for 10% to 100 % step-change in rated load.

Stability: After 1 hr. warmup ±0.5% for 6 months at constant load, line and ambient.

**CIRCUIT PROTECTION** Fully protected against short circuits or overloads by fold back circuitry.

**MODULE CONNECTORS** AMP 202516-3 (or equiv.) connectors wired to DC output busses, high quality ground and 115 VAC.

**DIMENSIONS** 11 1/4" W x 11 5/8" H x 15 1/4" D (285x295x387 mm).

**WEIGHT** 16.5 lbs. net (7.5 kg); 23 lbs. shipping (10.5 kg).

**AMBIENT** 0°C to 50°C (32°F to 122°F), without derating.

**FINISH** Baked vinyl paint. Body, light gray; side panels, charcoal gray.

**POWER** 115/230 V ±12%, 50/60 Hz.

The AP-Series Portanims are attractive, compact, portable NIM compatible bins with self-contained power supplies. The Model AP-3 replaces both the Model AP-1 and AP-2H. The Model AP-3 can hold six singles or combinations of larger module sizes equivalent to six.

Portanims are aesthetically designed to give a finished and pleasing benchtop instrument appearance to plug-in modules. They can be used for BNC modular digital delay generators, trigger pulse amplifiers, pulse generators, programming interfaces and the NIM-style plug-in instruments of other manufacturers. The units provide significant savings in cost, space and weight over standard 12-width NIM bin/ power supplies when instrumentation setups consisting of only one or several modules are needed.

Power combinations of ±6 V, ±12 V and ±24 V are available in the Model AP-3. AC 117 V power for modules that may require it is also provided. The supplies conform to the specifications of AEC report TID-20893 (Rev. 3) except for maximum current ratings, since they hold fewer modules.

The AP-Series Portanims can be handily carried about in the laboratory or field. Each model can be set down on its back or bottom. A foldout bale allows tilting up on the bench and the sturdy carrying handle swings out of the way when not in use. A covered compartment at the rear allows storage for line cord, signal cables, etc., and gives access to instruments rear panel controls.

If future needs may involve installing unforeseen modules, getting the AP-3, with its full complement of six DC outputs, will assure accommodating any other NIM-type instruments.

BNC-blue painted blank panels are available to cover unused module cavities. The part numbers are: Single-width P/N 6823; Double-width P/N 6824; Triple-width P/N 6826. Empty modules in various sizes are available for OEMs or others who wish to design plug-in instruments for Portanims. Contact BNC for source information on modules in bulk or kit form.



AP-3 with DB-4 NIM Pulse Generator shown above



AP-3 Rear Panel Shown Above