

**MINIM BIN WITH POWER SUPPLY UNIT**

(with 42 pin NIM Connectors)

TYPE : MB 404A

**Technical Data**



**FEATURES :**

- ❑ Compact, rugged, light weight and portable.
- ❑ Significant saving in cost and conserves bench space.
- ❑ Provides space for EIGHT single width NIM modules, as per AEC specifications.
- ❑ Power supply provides +/- 6V at 3A, +/-12V @1.5A and +/-24V, @1A, and 115V AC @0.25A.

**MINIM BIN & POWER SUPPLY UNIT Type:** MB404A manufactured by NUCLEONIX is primarily designed with the objective of conserving bench space and to achieve significant saving in cost of the Minimbin based Nuclear Counting Systems. Minimbin systems have the advantage of modularity in the system integration. This results into flexibility in interchangeability of functional modules. A small control panel not occupying any of the available module space is located at the right side of the bin, providing control switches, test points and indicator lamps. This is recommended when few NIM modules are to be used and powered for their functionality. These module may include (0 to 5000) Volts. HV Module and spectroscopy amplifier.

**SPECIFICATIONS**

**BIN :**

**Interchangeability:** Mechanical Tolerance are in accordance with TID 20893 (Rev) enable interchangeability of all NIM standard modules.

**Panel Dimensions:** Standard rack 8 3/4 inches high and 8 single bits wide excluding, control panel.

**Depth Behind Panel:** Approximately 10.9 inches

**BIN Connectors:** 8 NIM standard connectors (42 pin as per AEC specifications) at the panel as specified by Nucleonix, wired in parallel for standard voltages.

**Installed Wiring:** All the EIGHT connectors are wired for +/-6V +/-12V, +/-24V and high quality GND in accordance with TID 20893.

**Construction:** Bin is constructed with two side aluminium with casted handles, top and bottom grilled steel rod mesh with two side channel supports, module guides and a connector plate at the back and a two bit space reserved for power supply module.

**Mechanical Dimensions:** 11.75" width x 11.00 depth upto connector plate x 8.75" height.

**POWER SUPPLY UNIT**

**Power Supply Module:** This is a compact enclosure seated at the rear side of the bin which generates and provides DC supplies to all the bussed power connectors of the bin.

**Input Voltage:** 117V/230V AC, 50/60 Hz, +/-10% variation allowed.

**DC output:** +/- 6V at 3A, +12V DC at 1.5A, -12V at 1.5A, +24V DC at 1A, -24V at 1A, 120 watts maximum output.

**Regulation:** Better than +/-0.1%.

**AC output:** 115V AC, 50 Hz @0.25A.

**Stability:** +/-0.5% after a 24 hr warmup at constant line, load and ambient temperature.

**Noise and Ripple:** Less than 5mV (rms) as observed at the power supply module connector level.

**Voltage adjustments:** +/- 5% minimum range.

**Circuit Protection:** Input AC lines fused. Output is protected against short circuit and power supply recovers fully on removing the short circuit.