

**POWER SUPPLY UNIT  
TYPE : PS 402**

Technical Data



**FEATURES :**

- Generates +/-12V D.C at 3 amps and +/-24V D.C. at 1.5 amp
- Regulation better than +/-0.05%
- Noise and ripple less than 5 mV, rms
- Built-in overload and short circuit protections
- Output rating 96 watts

**Power Supply PS402** designed for mating with NIM Instrumentation Bin IB402, offers a complete rack mountable assembly or can be housed for table-top use. The D.C. output voltages furnished by PS402 are +12V and -12V at upto 3A each and +24V and -24V at upto 1.5A each. A 115V A.C. power output is also distributed to the Bin. Power Supply PS402 is overload and short circuit protected and has excellent load and line regulation with low ripple.

**SPECIFICATIONS**

**Input :** 117V / 230V A.C. single phase 50/60Hz with 10% variation in input voltage range. 3 Pin MS series connector is provided through 3-core cable.

**DC output :**

+12V DC at 3A; -12V DC at 3A  
+24V DC at 1.5A; -24V DC at 1.5A  
total output load not to exceed 96W at 30° c.

**AC output :** 115V AC @0.5A has been wiredup and provided at each of the module connectors.

**Regulation :** Better than +/-0.05% over combined range of zero to full load and input voltage of 88% to 110% of rated input at constant ambient temperature after a 60 min warmup.

**Stability :** After warmup the voltage shall not vary by more than +/-0.2% of the nominal values at any time during any 24 hours period at constant ambient temperature over the combined range of no load to full load and input voltage +10% to -12% of nominal.

**Temperature Range :** 0°c. to +50°c without derating. Operation upto +60°c is possible with a derating of 3% per °c for temperatures above +50°c .

**Temperature Coefficient :** Less than 0.02% per °c upto +50°c.

**Noise & Ripple (rms) :** The combined output voltage noise and ripple shall not exceed 5mV.

**Voltage Adjustment :** Output is adjustable over a nominal range of atleast +/-0.5% by means of a screw driver adjustment. Adjustment potentiometers are provided on the PCBs and are easily accessible when top cover is removed.

**Circuit Protection :**

- a. Input of the mains supply is protected by two fuses.
- b. Overload and short circuit protection is achieved by electronic circuitry. The output shall recover automatically when the overload / short circuit is removed. Continuous short circuit will not damage the power supply.

**Dimensions :** 430W x 168D x 153H approx. (in mm).