

POWER SUPPLY UNIT

TYPE : PS 401

Technical Data



FEATURES :

- ☐ Generates +12V D.C at 3A and +/-24V D.C at 1.5A.
- ☐ Regulation better than +/-0.05%.
- ☐ Noise and ripple less than 10mV.
- ☐ Built-in overload & short circuit protection.
- ☐ Output rating 96 watts at 30° C.

Power Supply PS401 designed for mating with standard Bin IB401, offers a complete rack mountable assembly or can be housed for table top use. The D.C output voltages furnished by PS401 are +12V and -12V at upto 3A each and +24V and -24V at upto 1.5A each. A 230V A.C power output is also distributed to the Bin. Power supply PS401 is overload and short circuit protected and has excellent load and line regulation with low ripple.

SPECIFICATIONS

Input Voltage :

230V A.C, single phase 50Hz with 10% variation in input voltage range

DC output :

+12V @3A, -12V@3A, +24V@1.5A, -24V@1.5A Total output load not to exceed 96W at 30°C centigrade.

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 a warm-up 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 deg. C is possible with a derating of 3% per deg. C for temperatures above +50° C.

Temperature Coefficient :

Less than 0.02% per deg. C over 0° C. to +50° C.

Noise & Ripple (rms) :

The combined output voltage noise and ripple shall not exceed 10mV.

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)

Note : Essential attachment : Power Supply PS402/PS402H

FILE_NAME : NSPL/DOC / DS / PS401/01

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