

The Switcher Experts

45 W

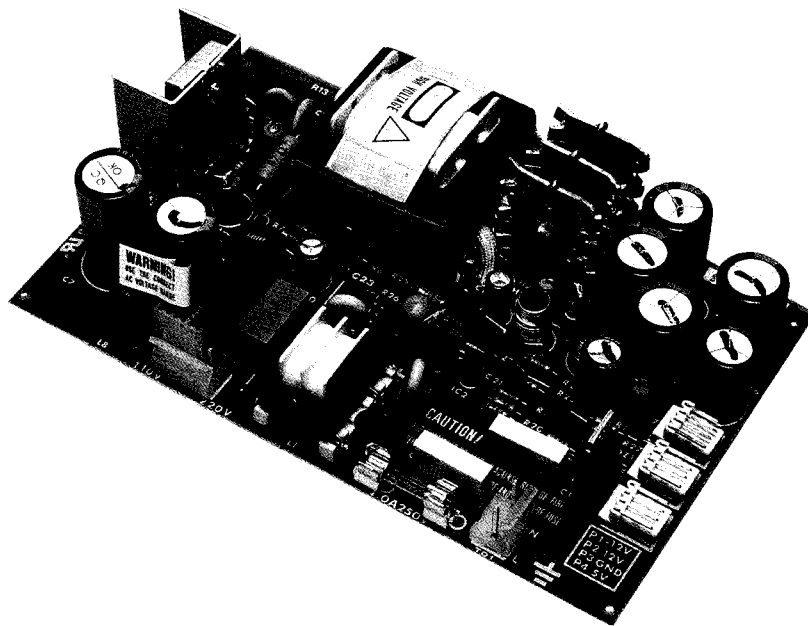
SNP-101 SERIES

FEATURES

- UL FILE NO. E 104272
- VDE REG. NO. 1435
- FCC CONDUCTED B LEVEL
- 115/230 VAC SELECTABLE

APPLICATIONS

- TERMINALS
- INDUSTRIAL CONTROL
- EXTERNAL FLOPPY SYSTEMS
- EXTERNAL HARD DISK SYSTEMS
- EXTERNAL TAPE BACK-UP SYSTEMS



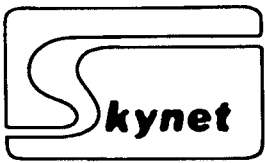
DESCRIPTION

SNP-101 series is a 45 Watts flyback type free-running switching power supply. The AC input range of 115VAC or 230VAC is selected by a jumper on the PCB. All models in this series have overvoltage crowbar protection on output #1, and power foldback protection on all outputs.

The input line filter is provided to keep the noise under 6 dB of FCC class B conducted limited.

SNP-101 is UL/CSA's version and already got UL approved.

SNP-101-1 is UL/CSA/VDE's version and already got UL & VDE approved.



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SNP-101SERIES

GENERAL SPECIFICATIONS

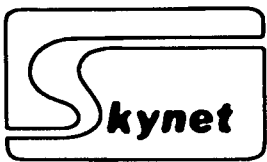
Input voltage 90VAC to 130VAC
 180VAC to 260VAC
 Input frequency 47Hz to 63Hz
 Inrush current(Cold)....15A at 115VAC
 30A at 230VAC
 Operation temperature 0 to 50°C
 Storage temperature ...-20°C to +85°C
 Cooling Free air convection
 Efficiency 70% typical
 Holdup time 20ms

Overvoltage type Crowbar
 Trip point 6.2V +/- 0.4V
 Overload protection Foldback
 at 150% rated load
 Switching frequency >20KHz
 Designed comply with
 UL 478, 1012, 1950
 CSA 22.2 NO. 220
 VDE 0806 IEC 380, 950
 EMI.....Meet FCC Class "B"

OUTPUT SPECIFICATIONS

MODEL NO.	OUTPUT VOLTAGE	LOAD			TOLERANCE + / -	RIPPLE NOISE	LINE REG.	LOAD REG.
		MIN.	RATED	MAX.				
SNP-101	+5V	0.4A	4A	5A	1%	50mV	1%	1%
	+12V	0A	2A	2.5A	5%	100mV	1%	3%
	-12V	0A	0.2A	0.5A	10%	100mV	1%	8%
SNP-101-1	+5V	0.4A	4A	5A	1%	50mV	1%	1%
	+12V	0A	2A	2.5A	5%	100mV	1%	3%
	-12V	0A	0.2A	0.5A	10%	100mV	1%	8%

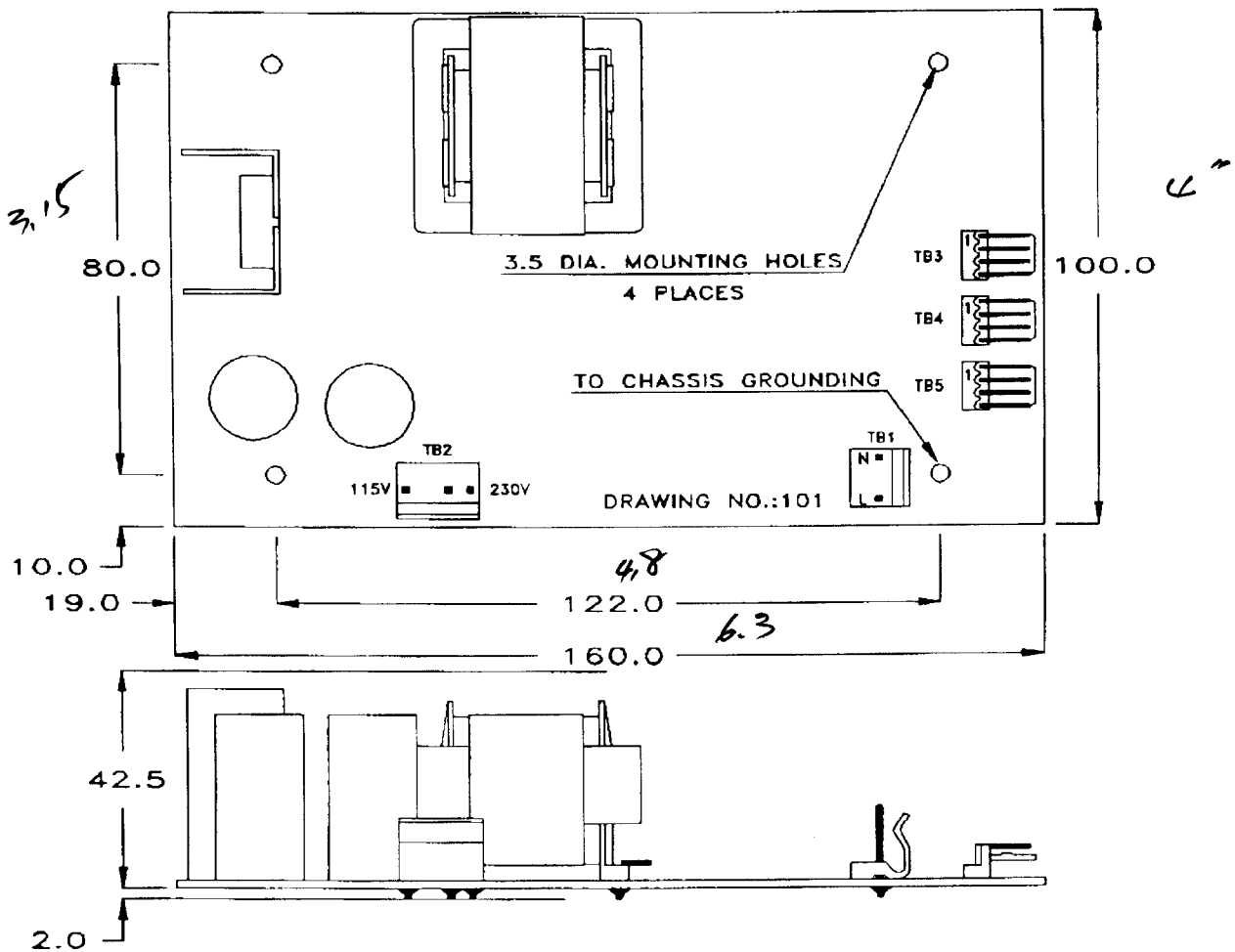
- Note:**
1. Each output can provide up to maximum load, but total load can not exceed 45 Watts continuously.
 2. +5V output is adjusted to +/- 1% at 60% rated load at factory.
 3. Tolerance is measured with all output at 60% rated load.
 4. Line regulation is measured from low line to high line at rated load.
 5. Load regulation is measured by +/- 40% load change from 60% rated load, and all other outputs are kept at 60% rated load.
 6. Ripple & noise is measured by using a 12" twisted wire terminated with a 47uF capacitor.
 7. Efficiency is measured at rated load.
 8. All parameters except line regulation are specified at 115/230 VAC input, rated load, 25°C ambient.



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MECHANICAL SPECIFICATIONS



Note:

1. Dimensions shown in : mm (+0.4mm)
2. PCB size:100mm X160mm
3. Mounting holes :80mm X 122mm
4. Weight : 390 g Approx.
5. Connectors :
 TB1- AC INPUT:
 Molex 5273-3 withdraw center pin or equivalent.
 TB3,4,5- DC OUTPUT:
 Molex 5046-4 circuits or equivalent.

Pin Assignment:

PIN	1	2	3	4
MODEL				
SNP-101	-12V	12V	GND	5V
SNP-101-1	-12V	12V	GND	5V

ELECTRICAL PERFORMANCE

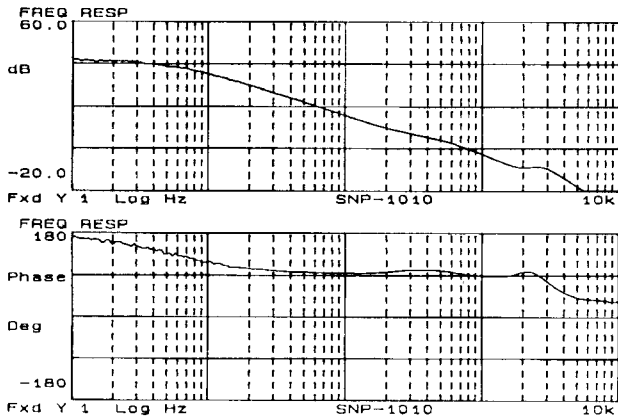


Fig.1 BODE DIAGRAM

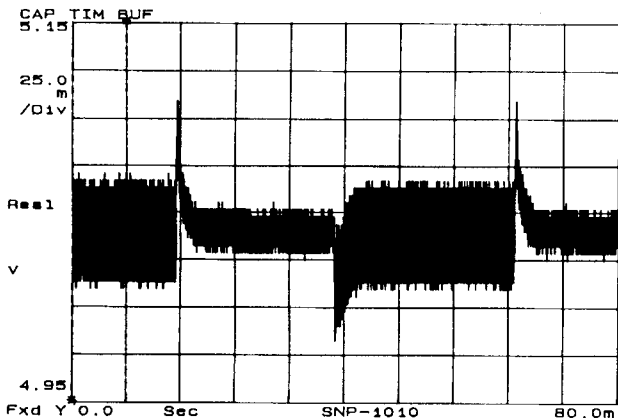


Fig.2 STEP RESPONSE

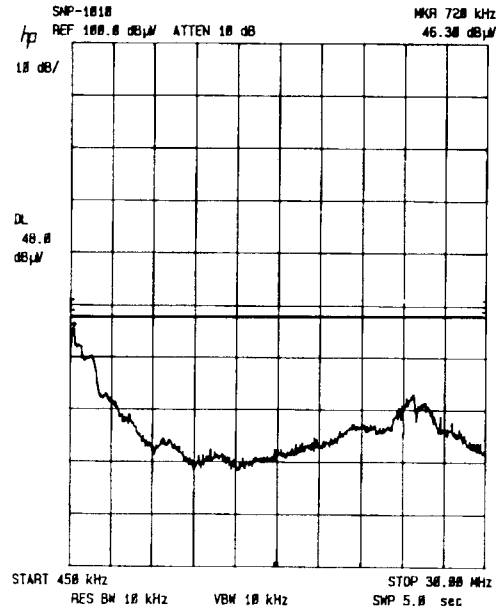
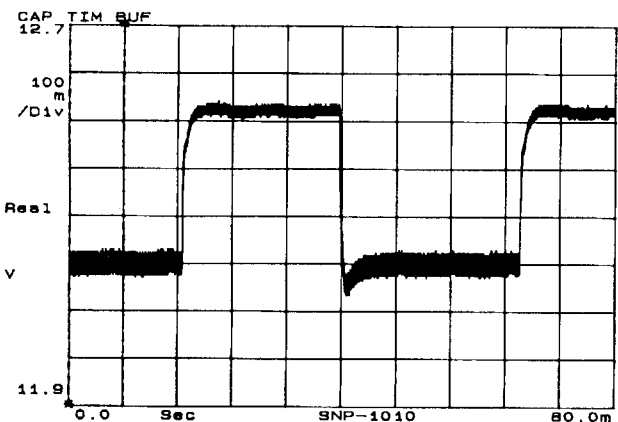


Fig.3 CONDUCTED NOISE

Note:

Fig.1 Show the stability of the circuitry by Bode Diagram.

Fig.2 Show the stability of the main loop (+5v) by changing the load of major aux. output from 20% to 100%.

Fig.3 Show the conducted noise level by 100% resistance loading.