

The Switcher Experts

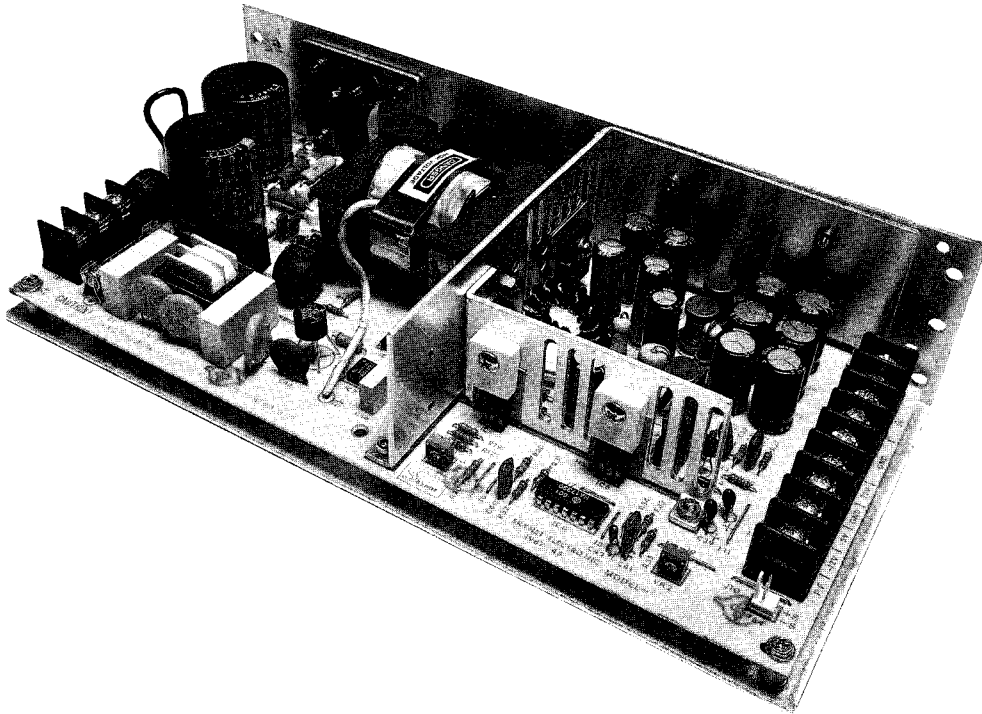
130W SNP-130 SERIES

FEATURES

- 115/230 VAC SELECTABLE
- DC GAIN >40 dB
- PHASE MARGIN 90 DEGREE
- REMOTE SENSE
- 1% LOAD REGULATION
- POWER FAILURE SIGNAL

APPLICATIONS

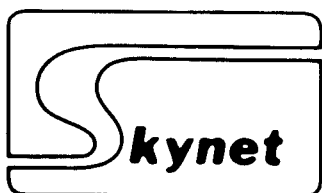
- PERSONAL COMPUTER SYSTEMS
- TELECOMMUNICATIONS
- CAD/CAM/CAE/CAI EQUIPMENT
- INDUSTRIAL
- ROBOTICS
- GENERAL PURPOSE



DESCRIPTION

SNP-130 series are Quad output switchers providing a full rated load of 130 watts and a peak load of 150 watts. This series can also operate 150 watts continuous with 0.8M³ / min. forced air. Input line filtering is provided to meet the basic requirements of FCC regulations.

The technology of PWM flyback and high speed MOSFET design permits higher efficiency and very low minimum load requirements. All auxiliary outputs are equipped with magnetic amplifier or post regulators to keep load regulation within 1%.



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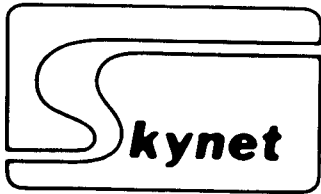
GENERAL SPECIFICATIONS

Input voltage	90 VAC to 130 VAC 180 VAC to 260 VAC	Temperature coefficient	+/- 0.02%/°C
Input frequency	47 Hz to 440 Hz	Efficiency	70% Typical
Inrush current (cold)	15A at 115VAC 30A at 230VAC	Holdup time	(115v) 20ms
Power failure signal	Power good TTL HI Power fail TTL LO	Overload protection	foldback at 150% load
Advance notice 5mS at full load before 5V drops to 4.75V		Output adjustable range	5V +/- 10% 12V +/- 5%
Operation temperature	0 to 50°C Linear derating to 50% load at 70°C	Overvoltage protection Type	crowbar Trip point 6.2 +/- 0.4V
Storage temperature	-20°C to 85°C	Switching frequency	30KHz
Cooling	Free air convection	Designed in full compliance with . . .	UL 478,1012 CSA 22.2 VDE 0806

OUTPUT SPECIFICATIONS

MODEL NO.	OUTPUT VOLTAGE	LOAD			TOLERANCE %	REGULATION		RIPPLE
		MIN.	RATE	MAX.		LINE	LOAD	
SNP-1300	5.0	3.0	15.0	20.0	adj 10%	0.5%	1%	50 mV
	12.0	0.0	4.0	6.0	adj 5%	0.5%	1%	60 mV
	-12.0*	0.0	1.0	1.5	5%	0.5%	1%	100 mV
	-5.	0.0	1.0	1.5	5%	0.5%	1%	100 mV
SNP-1301	5.0	3.0	15.0	20.0	adj 10%	0.5%	1%	50 mV
	24.0	0.0	2.0	4.0	adj 5%	0.5%	1%	60 mV
	12.0*	0.0	1.0	1.5	5%	0.5%	1%	100 mV
	-12.0*	0.0	1.0	1.5	5%	0.5%	1%	100 mV
SNP-1302	5.0	3.0	15.0	20.0	adj 10%	0.5%	1%	50 mV
	12.0	0.0	4.0	6.0	adj 5%	0.5%	1%	60 mV
	12.0*	0.0	1.0	1.5	5%	0.5%	1%	100 mV
	-12.0*	0.0	1.0	1.5	5%	0.5%	1%	100 mV

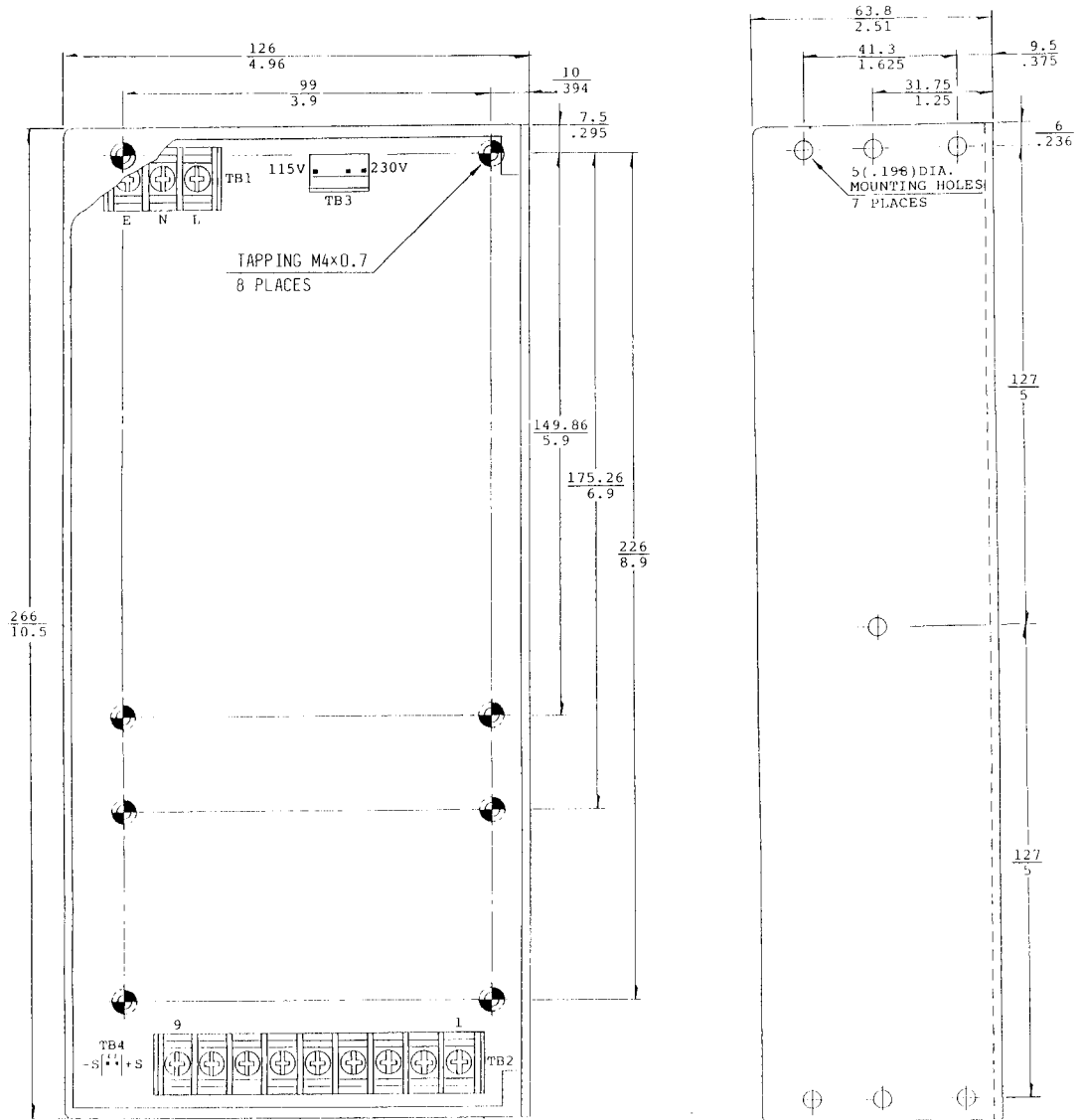
- Note:
1. Marked (*) outputs have 3 terminal regulators.
 2. Remote sense on 5V. (12V remote sense also available)
 3. Each output can provide up to maximum load, but total load can not exceed 130 watts. 150 watts continuous with 0.8M³/min. forced air cooling.
 4. Ripple and noise are measured by using a 12" twisted pair terminated with a 47 UF capacitor.
 5. Tolerance is measured with all outputs at 50% rated load.
 6. Line regulation is measured from low line to high line at rated load.
 7. Load regulation is measured for +/- 40% load change from 60% rated load, and all other outputs are 60% rated load.



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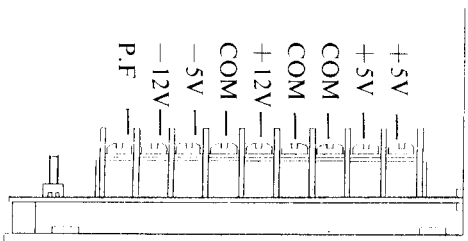
130W SNP-130 SERIES

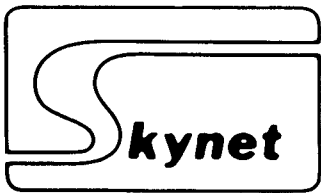
MECHANICAL SPECIFICATIONS



NOTE:

1. DIMENSION SHOWN IN: MM/INCH
2. SIZE: 266mm x 126mm x 63.8mm (10.5" x 4.96" x 2.51")
3. MOUNTING HOLE: 99mm x 149.9mm (3.9" x 5.9")
or 99mm x 175.3mm (3.9" x 6.9")
or 99mm x 226mm (3.9" x 8.9")
4. WEIGHT: 1.0 Kg approx.
5. TB1 : AC INLET TB3 : 115V/230V SELECT JUMPER
TB2 : DC OUTLET TB4 : 5V REMOTE SENSE





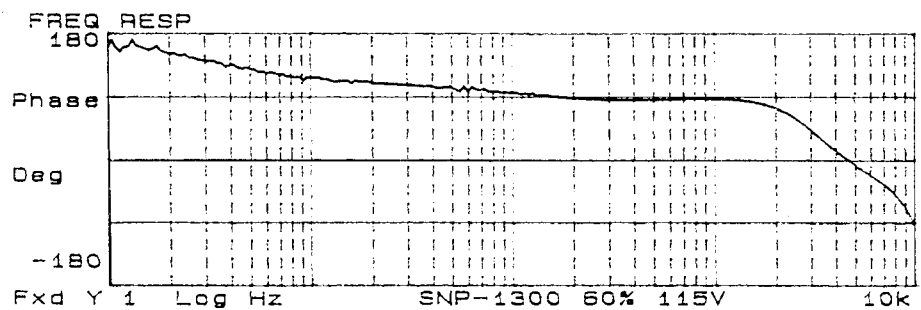
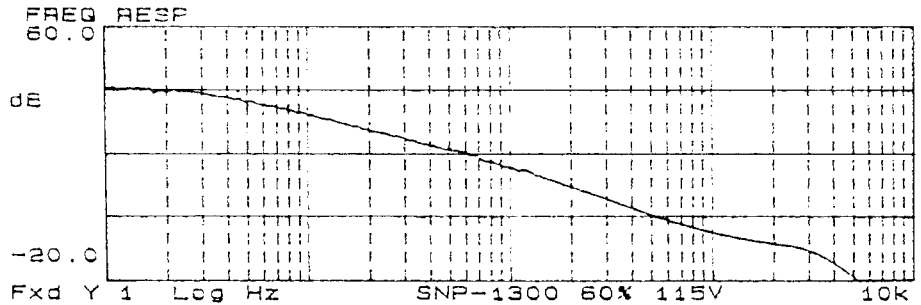
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STABILITY PERFORMANCE

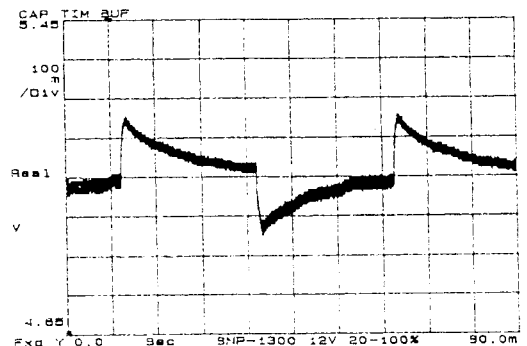
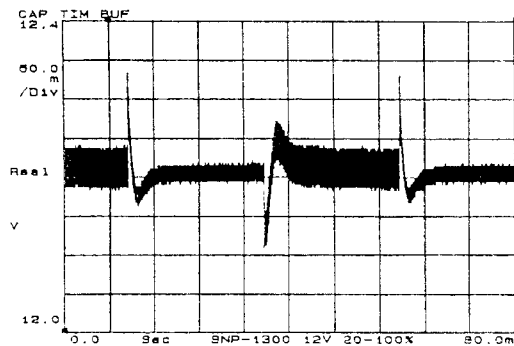
1. FREQUENCY RESPONSE

DC Gain: 40 dB
Bandwidth: 500 Hz



2. LOAD REGULATION AND CROSS REGULATION

Test condition # 1 : with 60% load on 5V output, 12V load change from 20% to 100% rated load.



Test condition # 2 : with 60% load on 5V output, 12V load change from 20% to 150% rated load.

