THE RELIABLE SOURCE

General Purpose

Rated 40W
Peak 60W
SNP-C04 Series

3.23" x 3.9" x 1.42"

Features:

- With ITE safety
- Only 1.42 inch height
- With power on LED
- With output adjustable trimmer
- Efficiency between 77% to 86%
- Operation from -20°C to 70°C by convection

Applications:

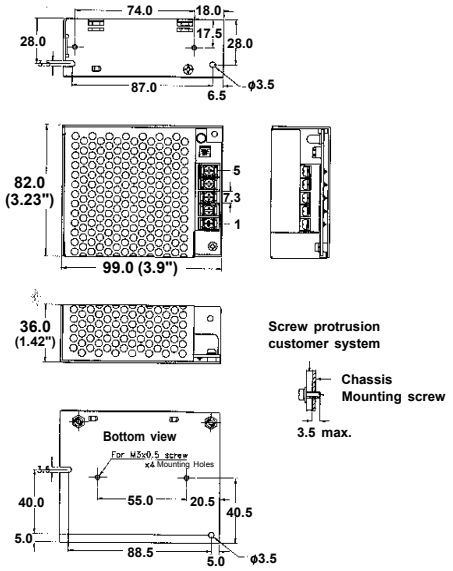
- For machinery.
- For industrial equipment.

General Specifications:

Input voltage ..... 85VAC to 264VAC
Input frequency..... 47Hz to 63Hz
Inrush current ..... < 30A at 115VAC
(cold start at 25°C) or < 60A at 230VAC
Efficiency ..... 77%~86% depends on models
at rated load and 115VAC
Hold up time ..... 16ms typical
at rated load and 115VAC
Over load protection ..... auto recovery
Short circuit protection ..... auto recovery
Over voltage protection ..... latch off
Operating temperature ..... -20°C to 70°C convection
derating: 2.5% / °C > 50°C
Cooling ..... free air convection
Storage temperature ..... -40°C to +75°C
EMI ..... FCC "B"
EN55022"B", EN55011"B"
EMS EN61000-4-2,-3,-4,-5,-6,-8,-11
Safety ..... UL 60950-1
CSA C22.2 No. 60950-1
EN 60950-1

Mechanical Specifications:

SNP-C043



-Eric-

Notes:

1. Size:
   3.23" x 3.9" x 1.42"
2. Connectors
   AC input & DC output : Terminal Blocks, 8.25mm interval
3. Output Pin assignment:

PIN NO.	1	2	3	4	5	6
SNP-C04B	AC/L	AC/N	Earth	GND	+3.3V	
SNP-C046	AC/L	AC/N	Earth	GND	+5V	
SNP-C047	AC/L	AC/N	Earth	GND	+12V	
SNP-C048	AC/L	AC/N	Earth	GND	+15V	
SNP-C049	AC/L	AC/N	Earth	GND	+24V	
SNP-C04T	AC/L	AC/N	Earth	GND	+48V	
SNP-C043	AC/L	AC/N	Earth	+12V	GND	+5V
SNP-C04A	AC/L	AC/N	Earth	+24V	GND	+5V

4. Packing:
   Net weight: 315 g approx. / unit
   Gross weight: 15.6 kg approx. / carton, 40 units / carton
   Carton size (mm): 463 (L) x 316 (W) x 287 (H)

10 years Warranty (contact Skynet's Distributors for details)

Output Specifications:

MODEL NO.	OUTPUT RAIL	LOAD				VOLTAGE ACCURACY	RIPPLE NOISE	LINE REG.	LOAD REG.	EFFICIENCY TYPICAL
		MIN.	RATED	MAX.	PEAK					
SNP-C04B	+3.3V	0A	9A		11A	+3.25V~+3.355V	50mVpp	±1%	±1%	77%
SNP-C046	+5V	0A	7A		10.5A	+4.95V~+5.05V	50mVpp	±1%	±1%	78%
SNP-C047	+12V	0A	3A		4.5A	+11.4V~+12.6V	120mVpp	±1%	±1%	82%
SNP-C048	+15V	0A	2.4A		3.6A	+14.25V~+15.75V	150mVpp	±1%	±1%	85%
SNP-C049	+24V	0A	1.7A		2.5A	+22.8V~+25.2V	240mVpp	±1%	±1%	85%
SNP-C04T	+48V	0A	0.8A		1.2A	+45.6V~+50.4V	240mVpp	±1%	±1%	86%
SNP-C043	+5V +12V	0A 0A	4A 1.5A	6A 2A	8A 3A	+4.95V~+5.05V +11.4V~+12.6V	50mVpp 120mVpp	±1% ±1%	±2% ±3%	81%
SNP-C04A	+5V +24V	0A 0A	3A 1A	5A 1.5A	7A 2A	+4.95V~+5.05V +22.8V~+25.2V	50mVpp 480mVpp	±1% ±1%	±2% ±3%	83%

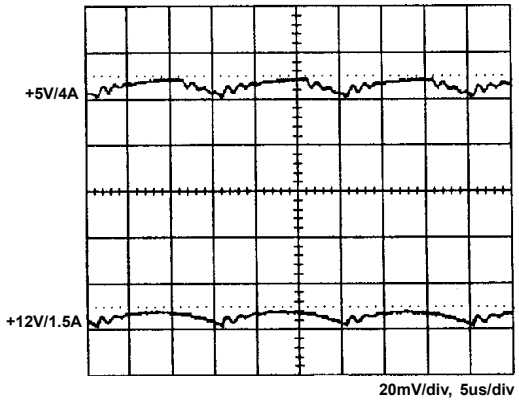
Note:

1. The max. load can be continuously provided at 50°C and convection cooling conditions. The peak load can be temporarily provided up to 8 seconds.
2. At factory, all outputs in 60% rated load condition, each output is checked to be within the accuracy range while the main output is setting to within the specified accuracy range at rated load.
3. Line regulation is defined by changing ±10% of input voltage from nominal line at rated load.
4. Load regulation is defined by changing ±40% of measured output load from 60% rated load at another output set to 60% rated load.
5. Ripple & noise is measured by using 15MHz bandwidth limited oscilloscope and terminated each output with a 0.47uF + 10uF capacitor at rated load and nominal line.
6. Hold up time is measured from the end of the last charging pulse to the time which the main output drop down to regulation limit at rated load and nominal line.
7. SNP-C04B is designed in conformity with safety regulations specified on page 4-1 but without safety applicaiton.

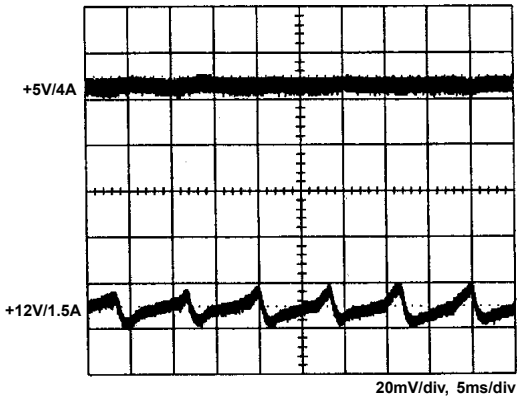
-Eric-

Performance for SNP-C043:

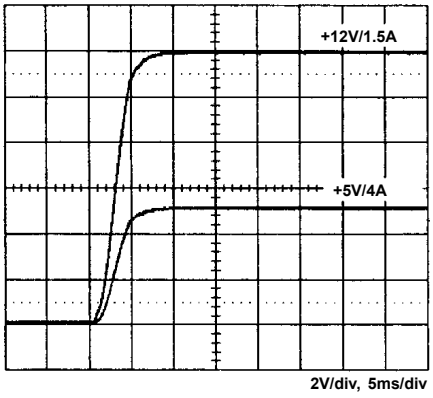
1. Switching frequency ripple



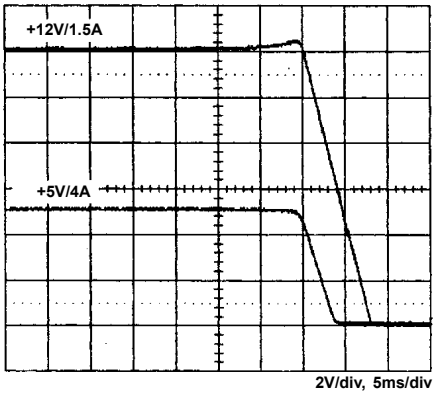
2. Line frequency ripple



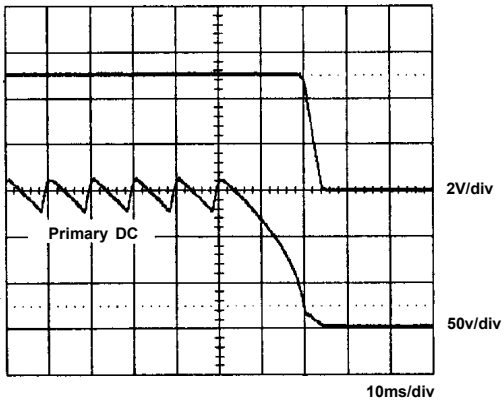
3. Output turn on wave form



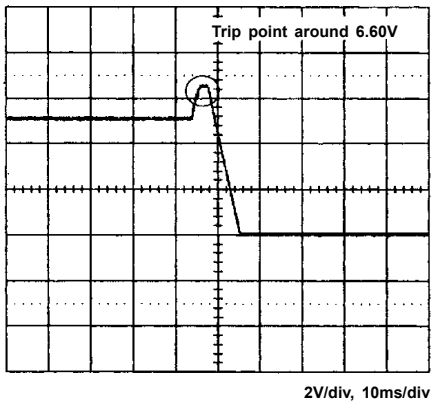
4. Output turn off wave form



5. Hold-up time



6. Over voltage protection



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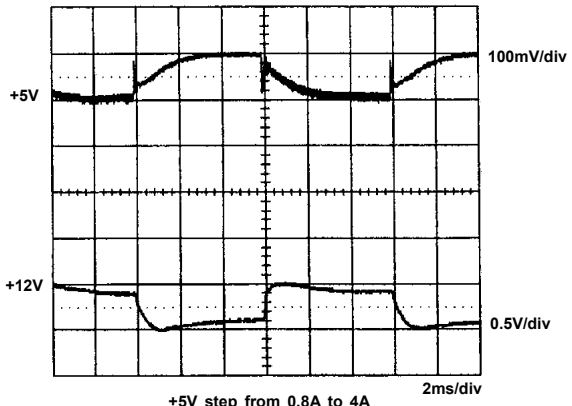
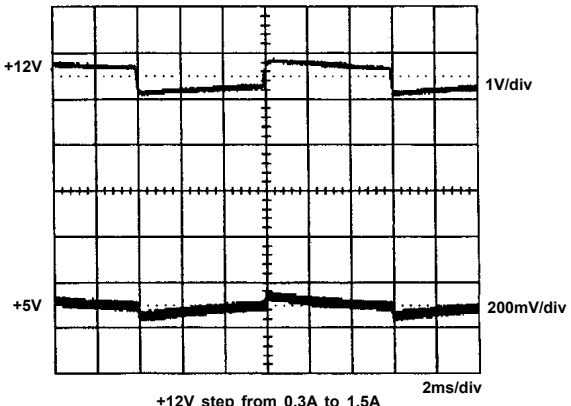
7. +5V step response



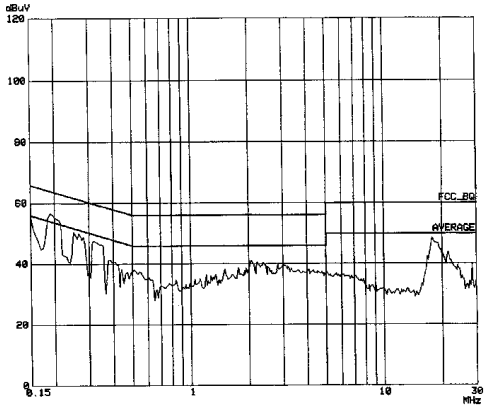
+5V step from 0.8A to 4A
other output at 60% load

8. +12V step response

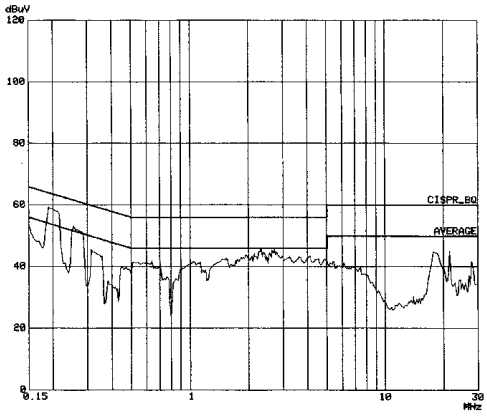


+12V step from 0.3A to 1.5A
other output at 60% load

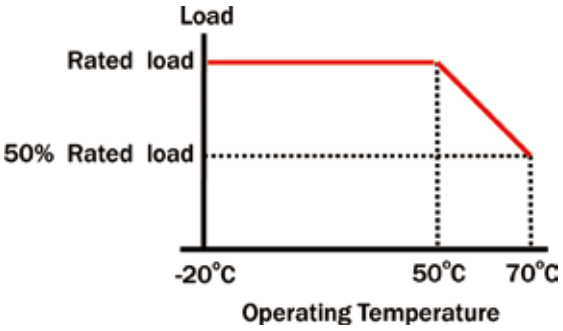
9. FCC B



10. EN 55022 B



11. Power derating curve



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