THE RELIABLE SOURCE

General Purpose

Rated 40W
Max. 48W
Peak 56W
SNP-G04 Series

2" x 3" x 0.91"

Features:

- Peak load (1.4 ~ 2 x rated current, Vo=rated for 5 sec)
- Design for BF application
- Convection cooling for Rated power
- Built-in PFC and 12V output for fan, available for G12x, G16x, and G20x
- EMI class B
- -20°C to +70°C operating temperature

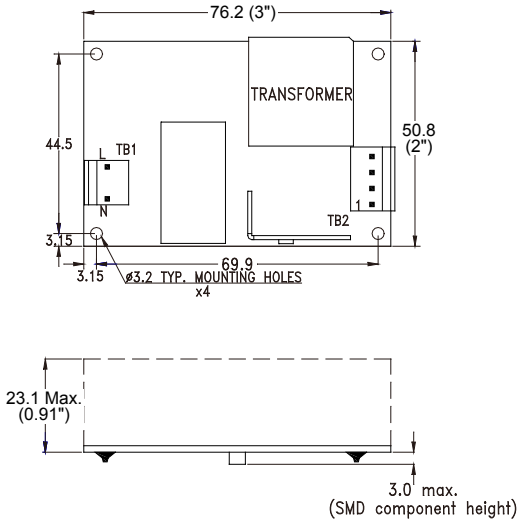
Applications:

- For peak load and surge load applications, such as motor drive, coffee machine, vending machine, gaming machine, and otehr industrials.
- For EMI class B application, such as home healthcare device, and other medical devices.

General Specifications:

Input voltage ..... 90 VAC to 264 VAC
Input frequency ..... 47 Hz to 63 Hz
Inrush current ..... < 30A at 115VAC
(cold start at 25°C) or < 60A at 230VAC
Efficiency ..... 84%~86% depends on models
Hold up time ..... 18 ms typical
at rated load and 115VAC
Over load protection ..... auto recovery
Short circuit protection..... auto recovery
Over voltage protection ..... latch off
Operating temperature (open frame type) ..... -20°C to 70°C
derating: 2.5% / °C > 50°C
Cooling .....40W free air convection
Storage temperature ..... -40°C to +85°C
EMI .....EN55022 "B", EN61000-3-3
Harmonics..... EN61000-3-2 class A
EMS..... EN61000-4-2,-3,-4,-5,-6,-8,-11
Safety .....UL/CSA/IEC60950-1, 2nd edition
ANSI/AMMI/CSA/IEC60601-1, 3rd edition

Mechanical Specifications:



Notes:

1. Size:
   2" x 3" x 0.91"
2. Mounting Hole:
   44.5 x 69.9 (mm)
3. Connectors:
   AC input: Molex 5277-02A or equivalent
   DC output: Molex 5273-04A or equivalent
4. Output Pin assignment:

1	2	3	4
Vo	Vo	GND	GND

5. Packing:
   Net weight: 88.5 g approx. / unit
   Gross weight: 11.4 kg approx. / carton, 100 units / carton
   Carton size (mm): 412 (L) x 382 (W) x 225 (H)

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

Output Specifications:

MODEL NO.	OUTPUT RAIL	LOAD				VOLTAGE ACCURACY	RIPPLE NOISE	LINE REG.	LOAD REG.
		MIN.	RATED	MAX.	PEAK				
SNP-G047 SNP-G047 -M	+12V	0A	3.33A		4.7A	+11.8V~+12.2V	100mVpp	±0.5%	±1%
SNP-G048 SNP-G048 -M	+15V	0A	2.66A		3.8A	+14.8V~+15.2V	100mVpp	±0.5%	±1%
SNP-G045 SNP-G045 -M	+18V	0A	2.22A		3.2A	+17.8V~+18.2V	100mVpp	±0.5%	±1%
SNP-G049 SNP-G049 -M	+24V	0A	1.66A		2.4A	+23.7V~+24.3V	150mVpp	±0.5%	±1%
SNP-G04G SNP-G04G-M	+28V	0A	1.42A		2.0A	+27.7V~+28.2V	150mVpp	±0.5%	±1%
SNP-G04J SNP-G04J -M	+36V	0A	1.11A		1.6A	+35.6V~+36.4V	150mVpp	±0.5%	±1%
SNP-G04T SNP-G04T -M	+48V	0A	0.83A		1.16A	+47.6V~+48.4V	150mVpp	±0.5%	±1%

Note:

1. **Standby Power Cosumption with System:**
   For computers and displays, ENERGY STAR in U.S. and ErP regulation in Europe require the input power should be less than 0.5W at standby mode.
2. **Output Load:**
   40W for convection cooling; 48W for forced air cooling.
3. **Peak Load Duration:**
   Peak 56W can last for 5 sec.
4. **Isolation Grade:**
   Primary ⟷ Ground : 1MOPP (1500Vac)
   Primary ⟷ Secondary : 2MOPP (4000Vac)
   Secondary ⟷ Ground : 1MOPP (1500Vac)
5. **Leakage Current:**
   Earth leakage current < 300uA
   Touch current < 100uA
6. **EMI Grounding:**
   If there is a metal sheet under the power supply, connect the EMI ground to the metal sheet.
7. **Model Selection:**
   SNP-G04x is for ITE application.
   SNP-G04x-M is for medical application.

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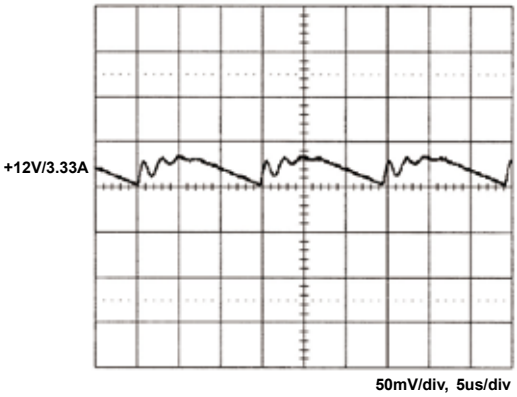
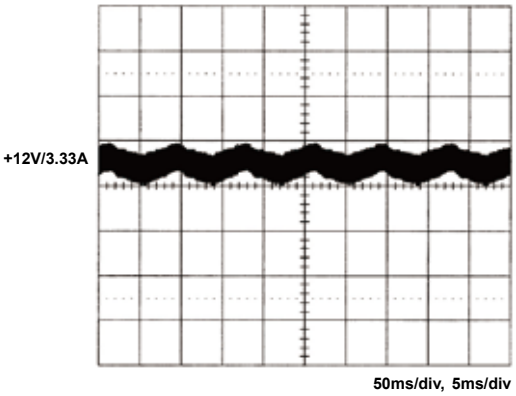
Performance for SNP-G047:

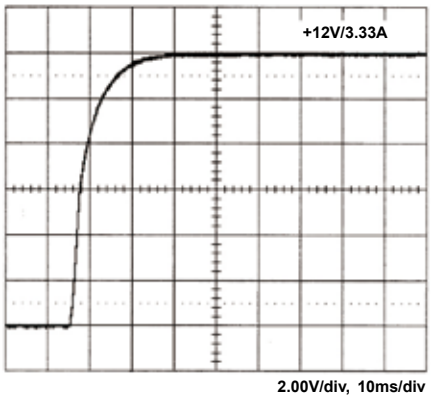
1. Switching frequency ripple



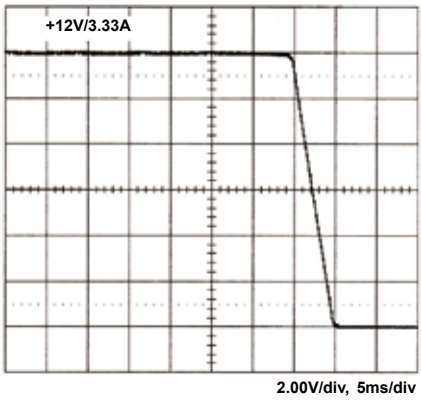
2. Line frequency ripple



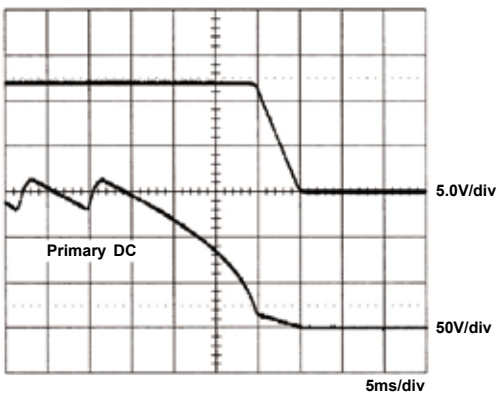
3. Output turn on wave form



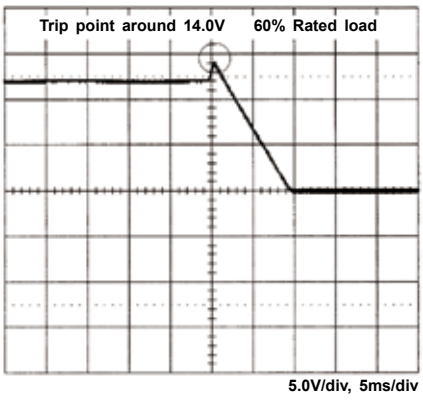
4. Output turn off wave form



5. Hold-up time



6. Over voltage protection



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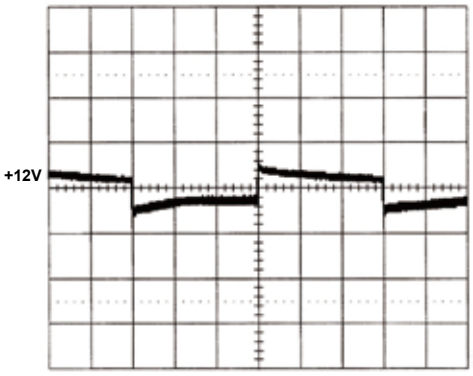
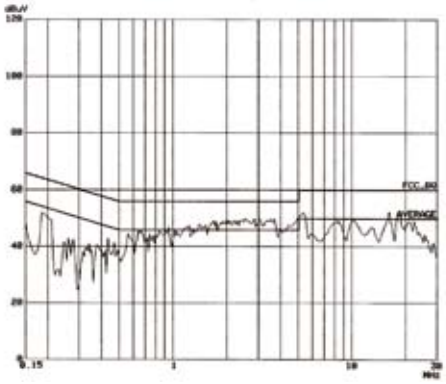
7. +12V step response



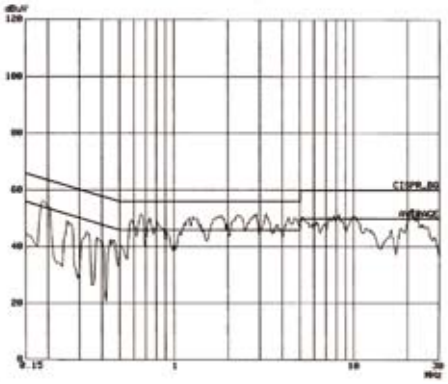
200ms/div, 2md/div

+12V step from 0.666A to 3.33A

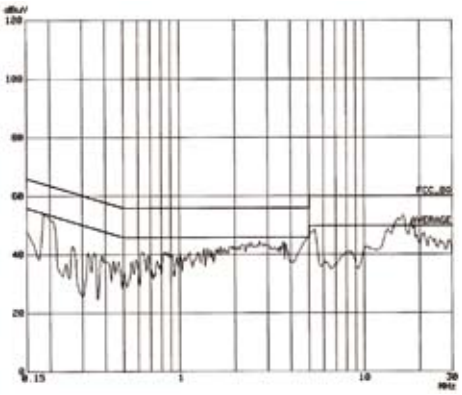
8. FCC B Class I



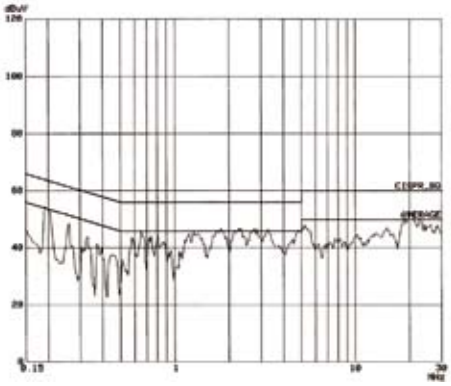
9. CISPR 22 B Class I



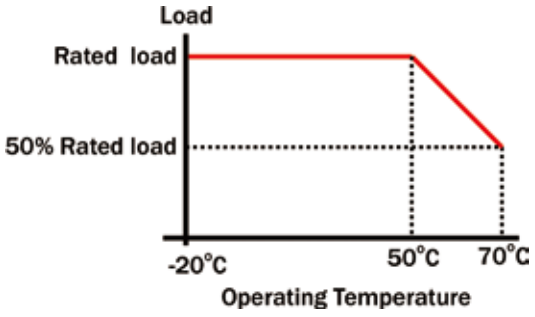
10. FCC B Class II



11. CISPR 22 B Class II



12. Power derating curve



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