



**2" x 4.2" x 1.28"**

### General Specifications:

Input voltage ..... 90 VAC to 264 VAC  
 Input frequency ..... 47 Hz to 63 Hz  
 Inrush current ..... < 30/60A at 115/230VAC  
 Hold up time ..... 20ms typical  
 Over load/Short circuit protection ..... auto recovery  
 Over voltage protection ..... latch off  
 Operating temperature ..... -20°C to 70°C  
     derating: 2.5% / °C > 45°C for convection cooling  
 Storage temperature ..... -40°C to +85°C

### Features:

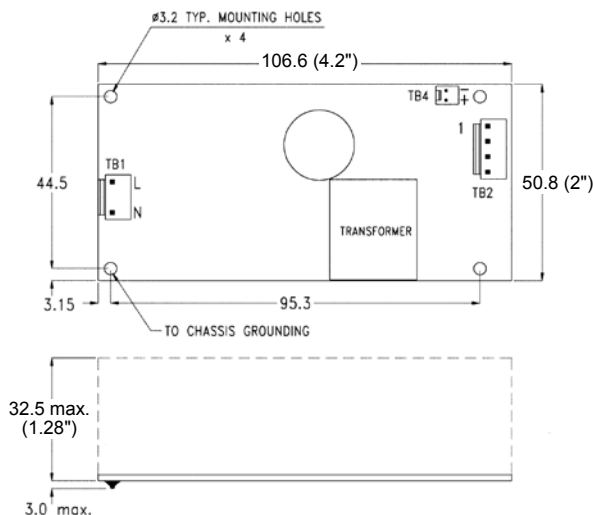
- Peak load (1.4 ~ 2 x rated current, Vo=rated for 5 sec)
- Design for BF application
- Convection cooling for Rated power
- Built-in PFC and 12V output for fan, available for G12x, G16x, and G20x
- EMI class B
- -20°C to +70°C operating temperature

### Applications:

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

EMI ..... EN55022 "B", EN61000-3-3  
 Harmonics.....EN61000-3-2, class D  
 EMS..... EN61000-4-2,-3,-4,-5,-6,-8,-11  
 Safety ..... UL/CSA/EN60950-1, 2<sup>nd</sup> edition  
     ANSI/AMMI/CSA/EN60601-1, 3.1 edition  
     CB report, CE mark, RM report/file  
 Energy Saving (for w/o -A suffix) ..... ENERGY STAR  
     for computers version 6.0  
     for displays version 6.0  
 ErP regulation EC(No) 1275/2008

### Mechanical Specifications:



### Notes:

1. Size:  
2" x 4.2" x 1.28"
2. Mounting Hole:  
44.5 x 95.3 (mm)
3. Connectors:  
AC input: JST B2P3-VH or equivalent  
DC output: JST B4P--VH  
Fan: Molex 5045-02A or equivalent
4. Output Pin assignment:  
Function Pin assignment:  

1	2	3	4
GND	GND	Vo	Vo

	TB3
Function Pin	FAN Output
1	GND
2	+12V
5. Packing:  
Net weight: 160 g approx. / unit  
Gross weight: 10 kg approx. / carton, 80 units / carton  
Carton size (mm): 422 (L) x 412 (W) x 287 (H)

-Jim-

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

## Output Specifications:

MODEL NO.	OUTPUT RAIL	LOAD				INITIAL ACCURACY	STEP EFFICIENCY			AVERAGE EFFICIENCY
		MIN.	RATED	MAX.	PEAK		@ 20% LOAD	@ 50% LOAD	@ 100% LOAD	
SNP-G127 SNP-G127 -A SNP-G127 -M SNP-G127 -MA SNP-G127 -H	+12V	0A	10.0A	12.5A	16.6A	+11.9V~+12.1V	82%	89%	90%	86.5%
SNP-G128 SNP-G128 -A SNP-G128 -M SNP-G128 -MA	+15V	0A	8.0A	10.0A	13.4A	+14.9V~+15.1V	82%	89%	90%	86.5%
SNP-G125 SNP-G125 -A SNP-G125 -M SNP-G125 -MA	+18V	0A	6.6A	8.3A	11.1A	+17.9V~+18.1V	82%	89%	90%	86.5%
SNP-G129 SNP-G129 -A SNP-G129 -M SNP-G129 -MA SNP-G129 -H	+24V	0A	5A	6.3A	8.3A	+23.8V~+24.2V	83.5%	90%	90.5%	88%
SNP-G12G SNP-G12G-A SNP-G12G-M SNP-G12G-MA	+28V	0A	4.3A	5.4A	7.2A	+27.9V~+28.1V	83.5%	90%	90.5%	88%
SNP-G12J SNP-G12J -A SNP-G12J -M SNP-G12J -MA	+36V	0A	3.4A	4.2A	5.6A	+35.8V~+36.2V	83.5%	90%	90.5%	88%
SNP-G12T SNP-G12T -A SNP-G12T -M SNP-G12T -M SNP-G12T -H	+48V	0A	2.5A	3.1A	4.2A	+47.8V~+48.2V	83.5%	90%	90.5%	88%

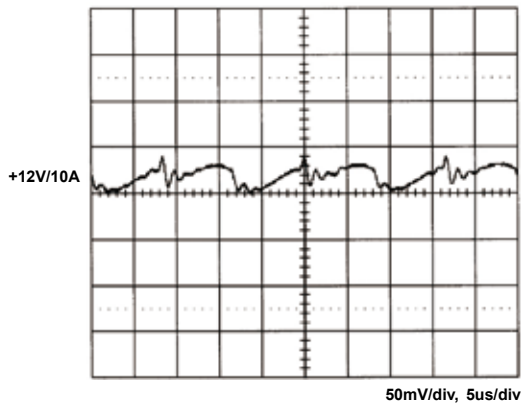
### Note:

- Standby Power Consumption 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.
- Output Load:**  
120W for convection cooling; 150W for forced air cooling.
- Peak Load Duration:**  
Peak 200W can last for 5 sec.
- Isolation Grade:**  
Primary ↔ Ground : 1MOPP (1500Vac)  
Primary ↔ Secondary : 2MOPP (4000Vac)  
Secondary ↔ Ground : 1MOPP (1500Vac)
- Leakage Current:**  
Earth leakage current < 300uA  
Touch current < 100uA
- EMI Grounding:**  
If there is a metal sheet under the power supply, connect the EMI ground to the metal sheet.
- Model Selection:**  
Most of power supplies will create audible burst sound at light load, if the application wants to meet input power < 0.5W at standby mode.  
SNP-G12x is for ITE application which requires standby mode.  
SNP-G12x-A is for ITE application but without burst sound and no standby mode.  
SNP-G12x-M is for medical application which requires standby mode.  
SNP-G12x-MA is for medical application but without burst sound and no standby mode.  
SNP-G12x-H is for Home Healthcare application, input class II.

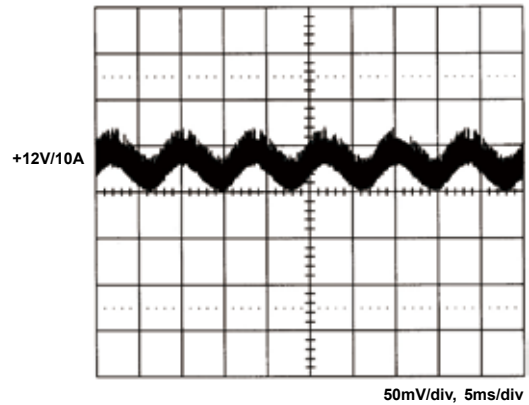
-Jim-

**Performance for SNP-G127:**

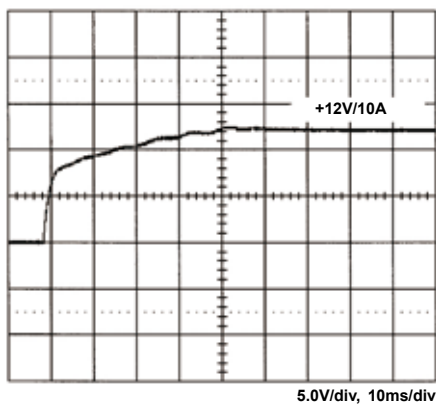
1. Switching frequency ripple



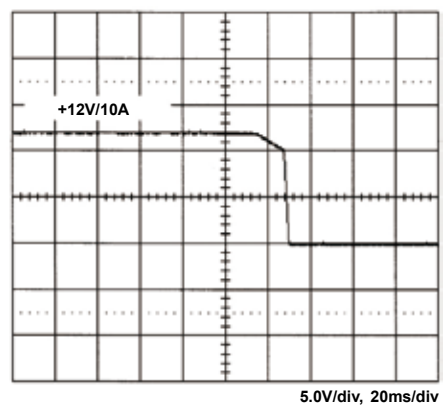
2. Line frequency ripple



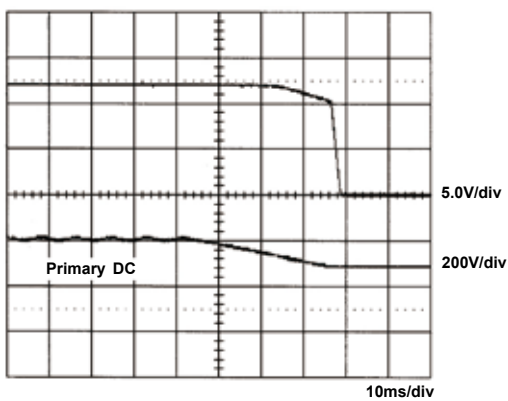
3. Output turn on wave form



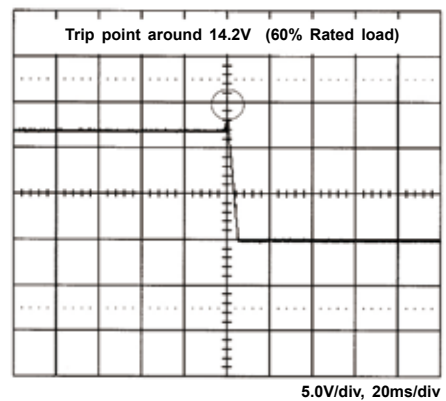
4. Output turn off wave form



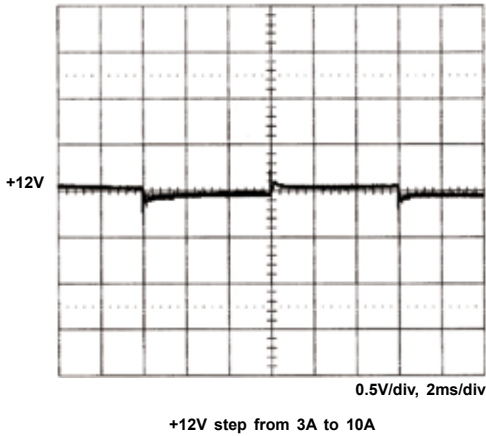
5. Hold-up time



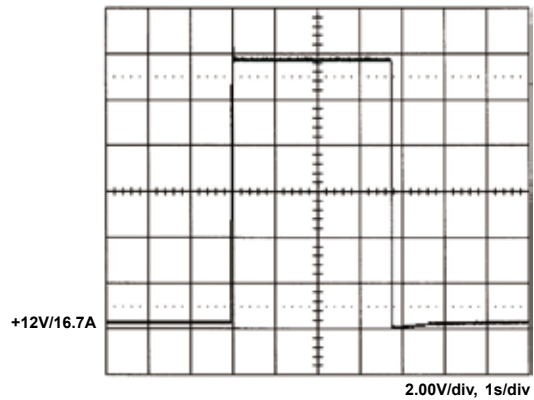
6. Over voltage protection



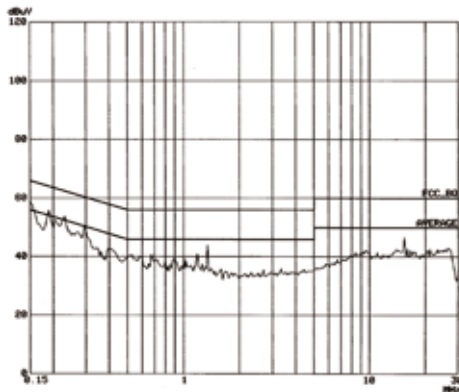
### 7. +12V step response



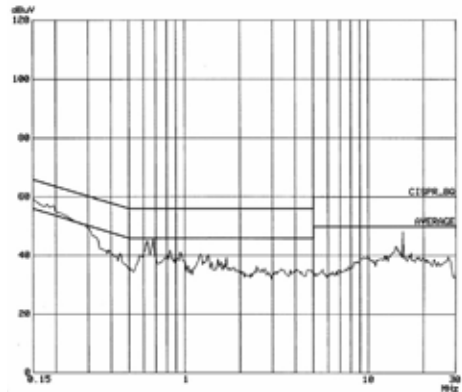
### 8. +12V peak load



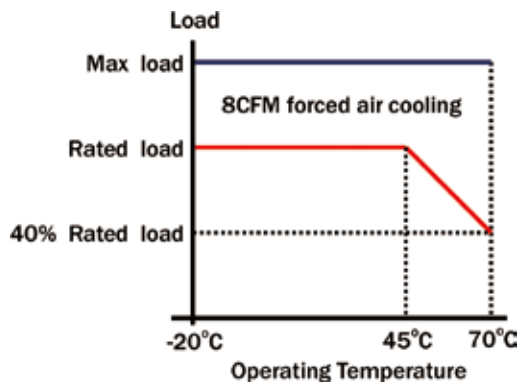
### 9. FCC B



### 10. CISPR 22 B



### 11. Power derating curve



### 12. Capability for driving motor

