



**3" x 5" x 1.56"**

### 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:

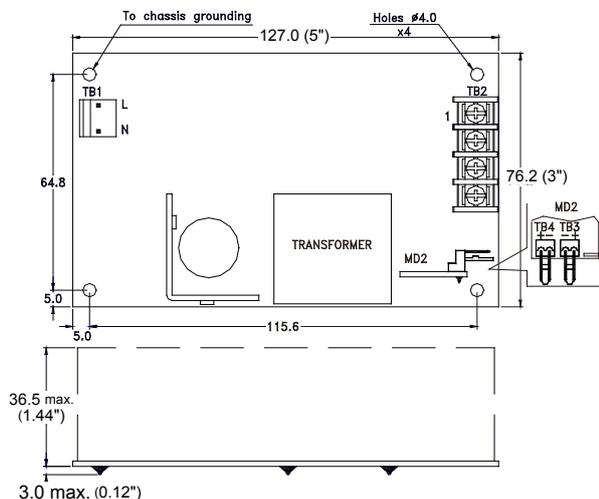
- For peak load and surge load applications, such as motor drive, coffee machine, vending machine, gaming machine, and other industrials.
- For EMI class B application, such as home healthcare device, and other medical devices.

### 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 > 50°C for convection cooling  
 Storage temperature ..... -40°C to +85°C

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 60950-1, 2<sup>nd</sup> edition, EN 62368-1  
 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:  
3" x 5" x 1.56" / 76.2 x 127 x 39.5 (mm)
2. Mounting Hole:  
64.8 x 115.6 (mm)
3. Connectors:  
AC input: Molex 5277-02A or equivalent  
DC output: Terminal blocks (default for SNP-G207) or Molex 5273-08A (default for others) or equivalent  
Fan, Remote sense: Molex 5045-02A or equivalent
4. Output Pin assignment: 

Pin No.	1	2	3	4	5	6	7	8
SNP-G207	+Vo	+Vo	GND	GND				
OTHER MODELS	+Vo	+Vo	+Vo	+Vo	GND	GND	GND	GND

Function Pin	TB3	TB4
FAN Output		Remote Sense
1	GND	Sense -
2	+12V	Sense +
5. Packing:  
Net weight: 353 g approx. / unit  
Gross weight: 15 kg approx. / carton, 16 units / carton  
Carton size (mm): 384 (L) x 339 (W) x 327 (H)

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

### Output Specifications:

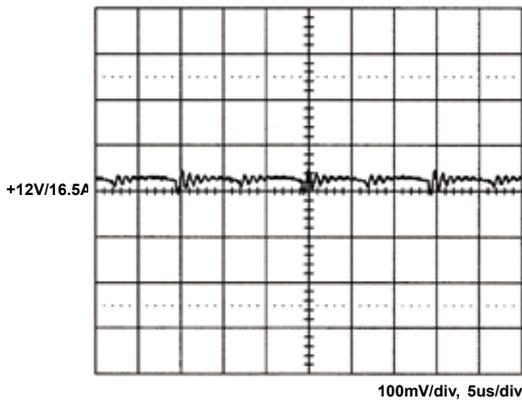
MODEL NO.	OUTPUT RAIL	LOAD				INITIAL ACCURACY	STEP EFFICIENCY			AVERAGE EFFICIENCY
		MIN.	RATED	MAX.	PEAK		@ 20% LOAD	@ 50% LOAD	@ 100% LOAD	
SNP-G207 SNP-G207 -A SNP-G207 -M SNP-G207 -MA	+12V	0A	16.5A	25A	33A	+11.9V~+12.1V	82%	88.5%	89.5%	86.5%
SNP-G208 SNP-G208 -A SNP-G208 -M SNP-G208 -MA	+15V	0A	12A	18A	22.5A	+14.9V~+15.1V	82%	88.5%	89.5%	86.5%
SNP-G205 SNP-G205 -A SNP-G205 -M SNP-G205 -MA	+18V	0A	11.1A	16.6A	23.3A	+17.9V~+18.1V	82%	88.5%	89.5%	86.5%
SNP-G209 SNP-G209 -A SNP-G209 -M SNP-G209 -MA	+24V	0A	8.4A	12.5A	16.7A	+23.9V~+24.1V	83%	89.5%	91%	88%
SNP-G20G SNP-G20G-A SNP-G20G-M SNP-G20G-MA	+28V	0A	7.2A	10.7A	13A	+27.9V~+28.1V	83%	89.5%	91%	88%
SNP-G20J SNP-G20J -A SNP-G20J -M SNP-G20J -MA	+36V	0A	5.6A	8.3A	11A	+35.8V~+36.2V	84%	90.6%	91%	88%
SNP-G20T SNP-G20T -A SNP-G20T -M SNP-G20T -MA	+48V	0A	4.2A	6.3A	8.4A	+47.8V~+48.2V	84%	90.6%	91%	88%

### Note:

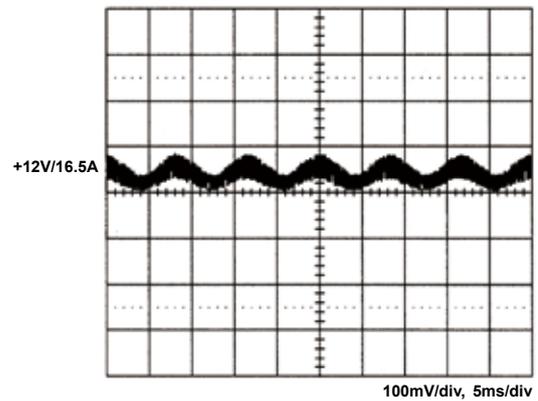
- Standby Power Consumption with System:**  
For computers and displays, ENERGY STAR in U.S. and ErP regulation in Europe require the input power should be less than 0.5W at standby mode.
- Output Load:**  
200W for convection cooling; 300W for forced air cooling.
- Peak Load Duration:**  
Peak 400W 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-G20x is for ITE application which requires standby mode.  
 SNP-G20x-A is for ITE application but without burst sound and no standby mode.  
 SNP-G20x-M is for medical application which requires standby mode.  
 SNP-G20x-MA is for medical application but without burst sound and no standby mode.

Performance for SNP-G207:

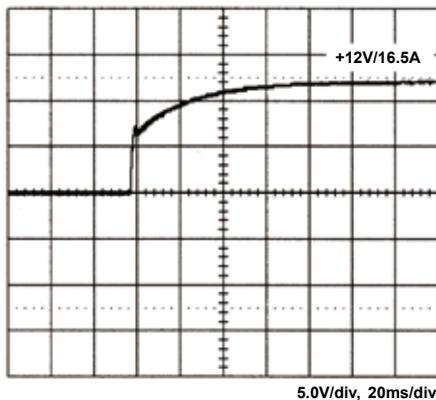
1. Switching frequency ripple



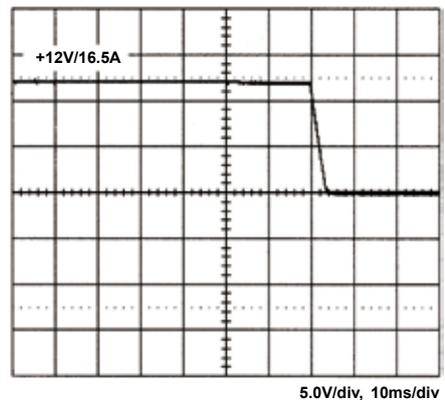
2. Line frequency ripple



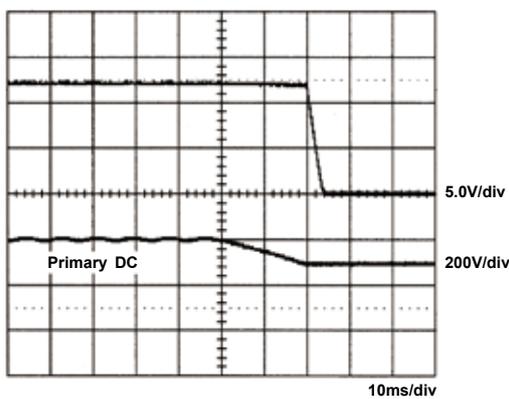
3. Output turn on wave form



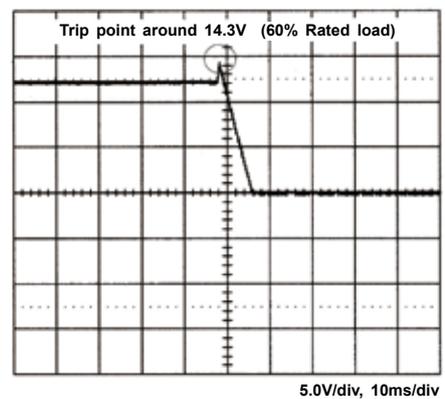
4. Output turn off wave form



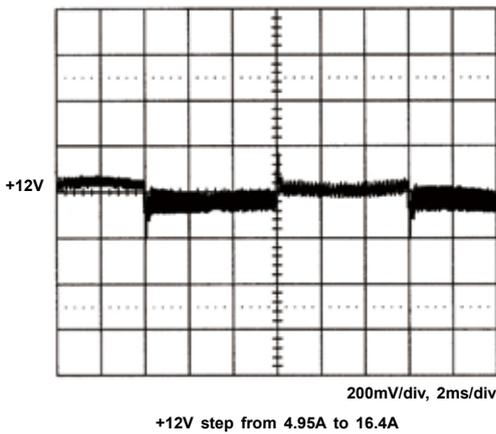
5. Hold-up time



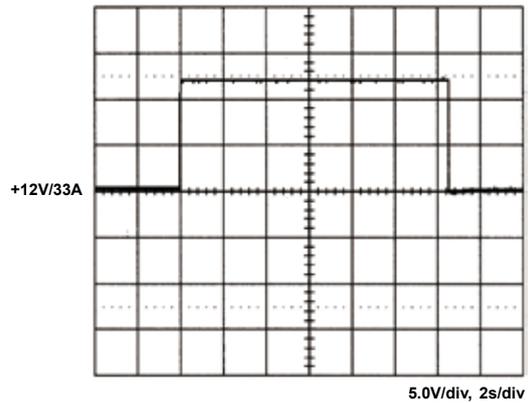
6. Over voltage protection



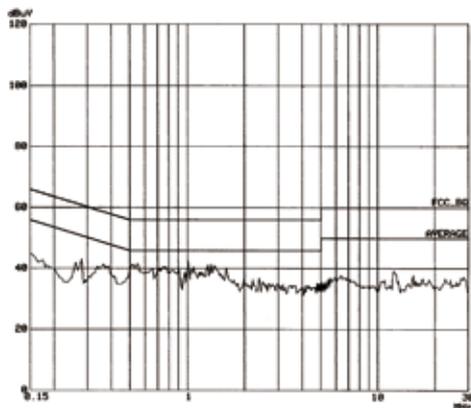
### 7. +12V step response



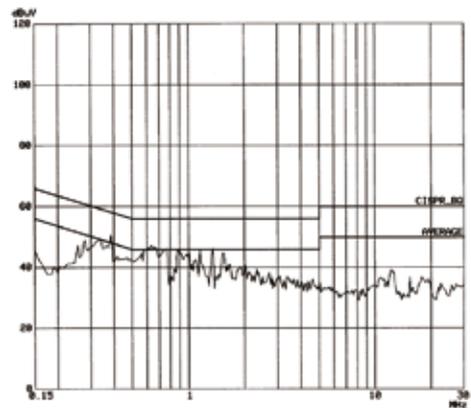
### 8. Peak load



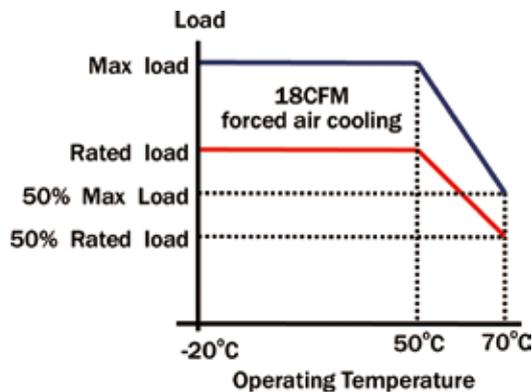
### 9. FCC B



### 10. EN55022 B



### 11. Power derating curve



### 12. Capability for driving motor

