



**3" x 5" x 1.7"**

### Features:

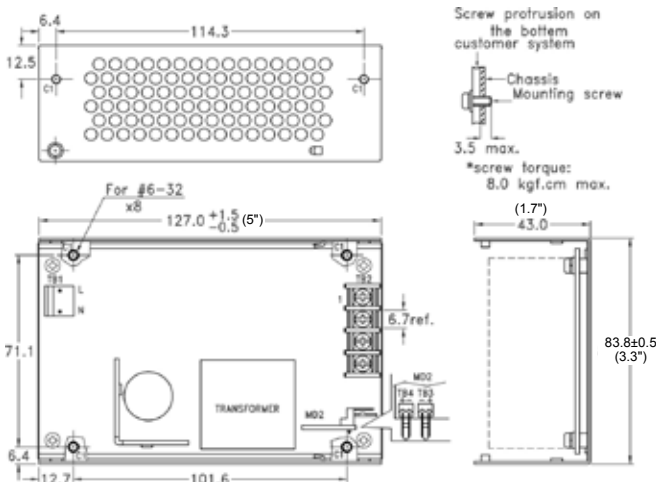
- Design for BF application
- Safety Class II
- 12V output for fan
- High mechanical torque start-up
- -20°C to +70°C operating temperature
- 5,000m operation altitude
- Convection cooling for rated load
- Forced air for max. load
- U-shape case

### 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/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: Fits 1U Height  
 3" x 5" x 1.7"  
 Side edge : 12.5 x 114.3 (mm)  
 Bottom : 71.1 x 101.6 (mm)
2. Mounting Hole:
3. Connectors:  
 AC input: Molex 5277-02A or equivalent  
 DC output: Terminal blocks (default for SNP-G207-U) or Molex 5273-08A (default for others) or equivalent  
 Fan, Remote sense: Molex 5045-02A or equivalent
4. Output Pin assignment:      Function Pin assignment:

Pin No.	1	2	3	4	5	6	7	8
SNP-G207-U	+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: 539 g approx. / unit  
 Gross weight: 15.3 kg approx. / carton, 24 units / carton  
 Carton size (mm): 384 (L) x 339 (W) x 327 (H)

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## 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 -U SNP-G207 -UA SNP-G207 -UM SNP-G207 -U5	+12V	0A	16.5A	25A	33A	+11.9V~+12.1V	83%	89%	89%	87%
SNP-G208 -U SNP-G208 -UA SNP-G208 -UM SNP-G208 -U5	+15V	0A	12A	18A	22.5A	+14.9V~+15.1V	83%	89%	89%	87%
SNP-G205 -U SNP-G205 -UA SNP-G205 -UM SNP-G205 -U5	+18V	0A	11.1A	16.6A	22.3A	+17.9V~+18.1V	83%	89%	90%	87.3%
SNP-G209 -U SNP-G209 -UA SNP-G209 -UM SNP-G209 -U5	+24V	0A	8.4A	12.5A	16.7A	+23.9V~+24.1V	83%	90%	90%	87.6%
SNP-G20G-U SNP-G20G-UA SNP-G20G-UM SNP-G20G-U5	+28V	0A	7.2A	10.7A	13A	+27.9V~+28.1V	85%	90%	90%	88.3%
SNP-G20J -U SNP-G20J -UA SNP-G20J -UM SNP-G20J -U5	+36V	0A	5.6A	8.3A	11A	+35.8V~+36.2V	85%	90%	90%	88.3%
SNP-G20T-U SNP-G20T-UA SNP-G20T-UM SNP-G20T-U5	+48V	0A	4.2A	6.3A	8.4A	+47.8V~+48.2V	85%	90%	90%	88.3%

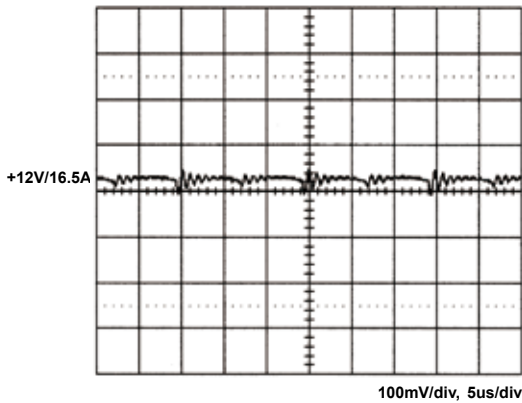
### Note:

- 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
- 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-U is for ITE application which requires standby mode.  
SNP-G20x-UA is for ITE application but without burst sound and no standby mode.  
SNP-G20x-UM is for medical application which requires standby mode.  
SNP-G20x-U5 is for medical application but without burst sound and no standby mode.

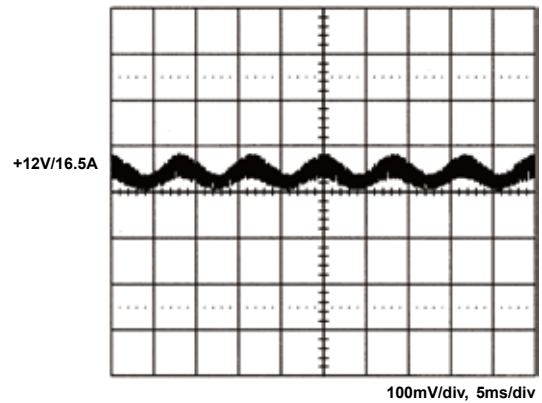
\* SNP-G20x-U5, 5=MA

**Performance for SNP-G207-U:**

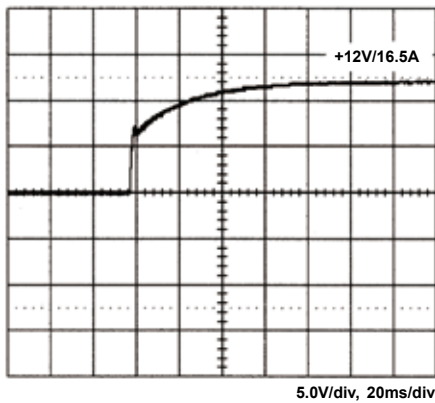
1. Switching frequency ripple



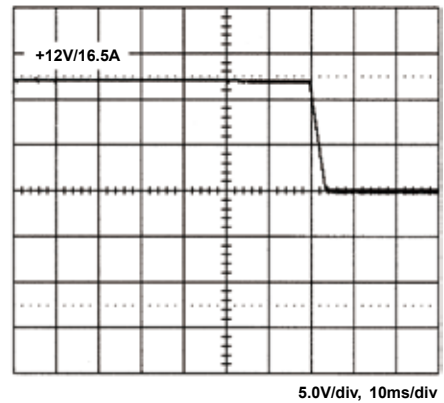
2. Line frequency ripple



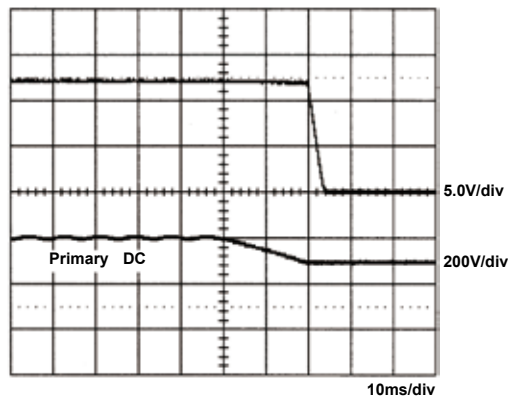
3. Output turn on wave form



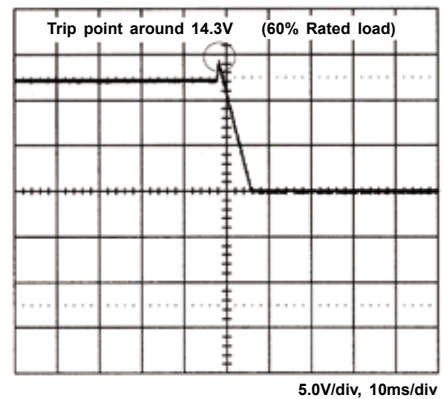
4. Output turn off wave form



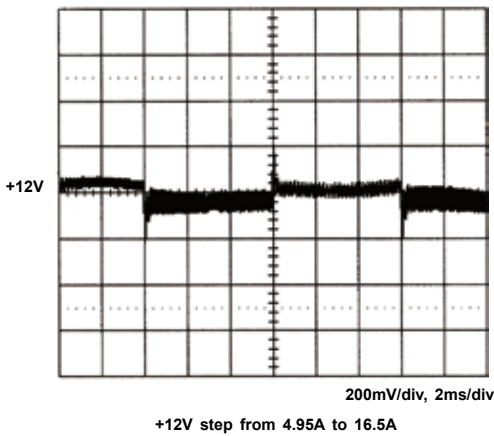
5. Hold-up time



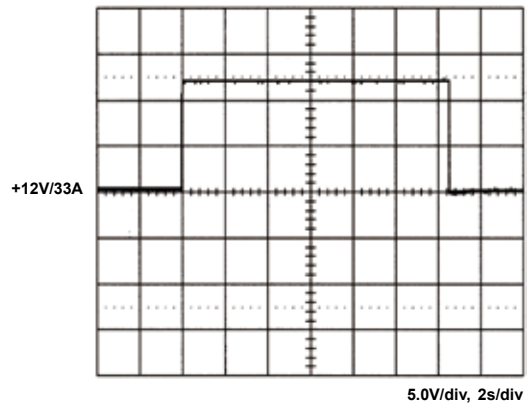
6. Over voltage protection



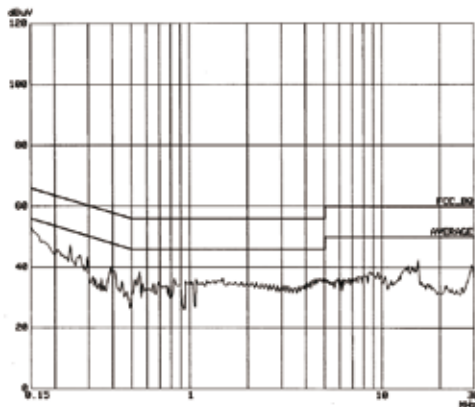
### 7. +12V step response



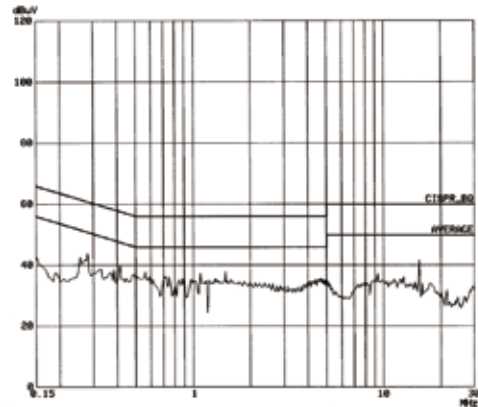
### 8. Peak load



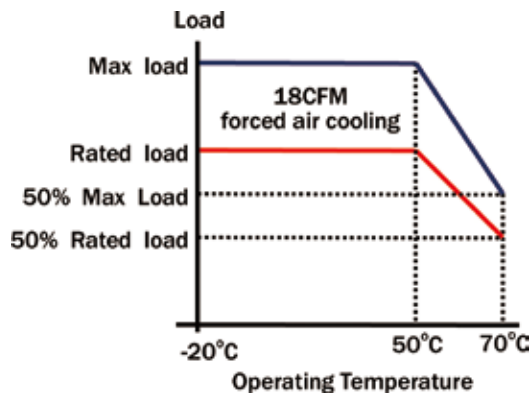
### 9. FCC B



### 10. EN55022 B



### 11. Power derating curve



### 12. Max. load fan location

