



3.3" x 5" x 1.7"

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

Features:

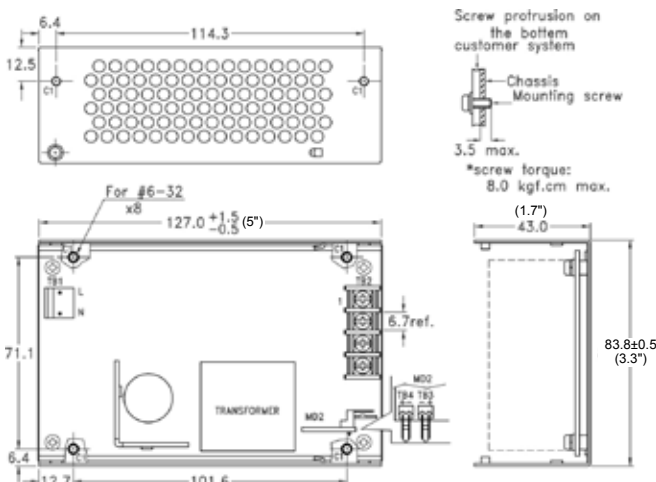
- Peak load (1.4 ~ 2 x rated current, Vo=rated for 5 sec)
- Design for BF application
- Convection cooling for Rated power
- Built-in PFC and 12V output for fan, available for G12x, G16x, and G20x
- EMI class B
- -20°C to +70°C operating temperature

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, 2nd 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
 3.3" x 5" x 1.7"
2. Mounting Hole:
 Side edge : 12.5 x 114.3 (mm)
 Bottom : 71.1 x 101.6 (mm)
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 |
|--------------|------|---------|
| 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)

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:

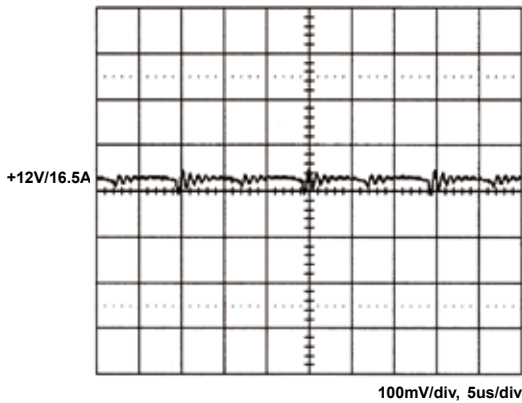
- Standby Power Consumption with System:**
For computers and displays, ENERGY STAR in U.S. and ErP regulation in Europe require the input power should be less than 0.5W at standby mode.
- Output Load:**
200W for convection cooling; 300W for forced air cooling.
- Peak Load Duration:**
Peak 400W can last 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

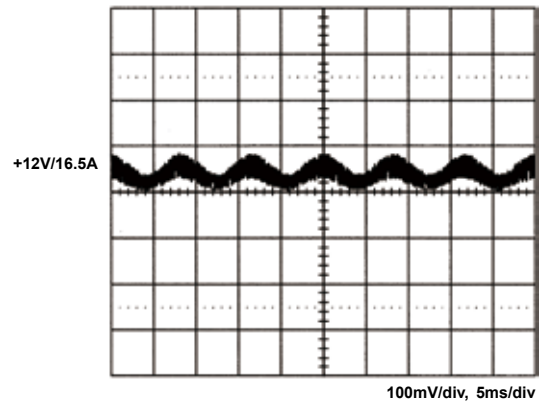
-Jim-

Performance for SNP-G207-U:

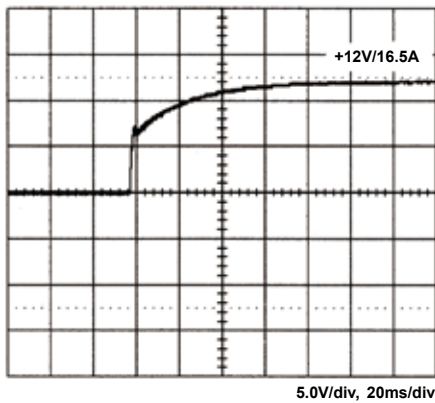
1. Switching frequency ripple



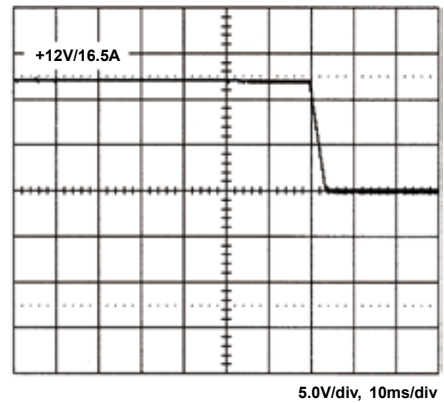
2. Line frequency ripple



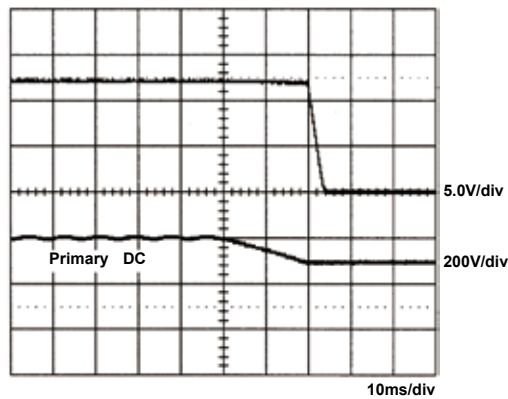
3. Output turn on wave form



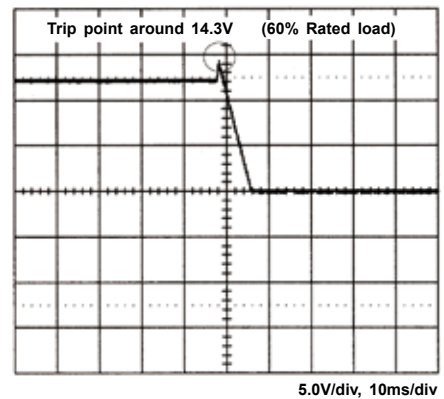
4. Output turn off wave form



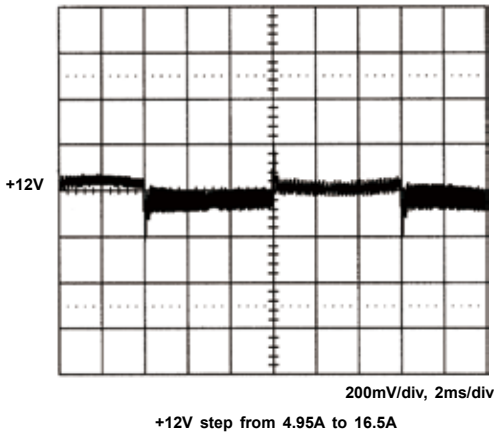
5. Hold-up time



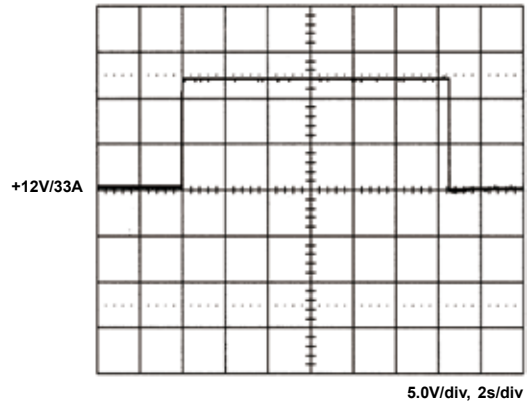
6. Over voltage protection



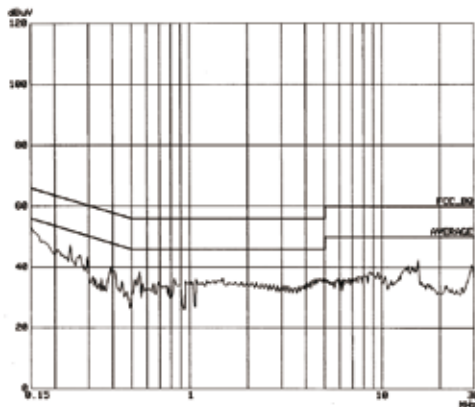
7. +12V step response



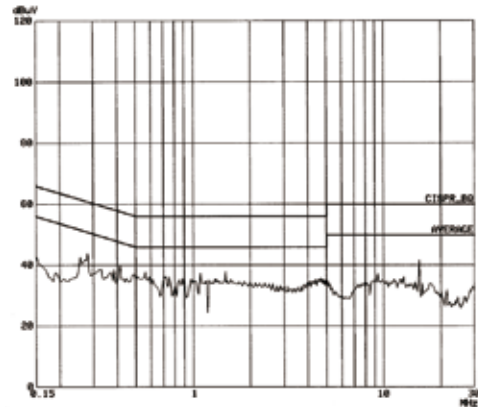
8. Peak load



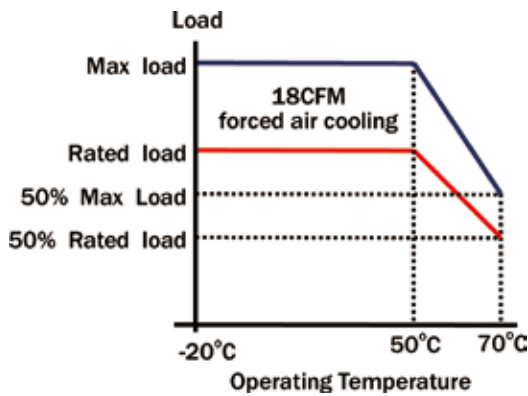
9. FCC B



10. EN55022 B



11. Power derating curve



12. Max. load fan location

