THE RELIABLE SOURCE

# Medical & ITE

## General Purpose

**Rated 200W**
**Max. 300W**
**Peak 360W**
**SNP-V20x-U Series**



3.3" x 5" x 1.7"

## Features:

- Peak load (1.6 ~ 2 x rated current, Vo=rated for 5 sec)
- Design for BF application
- Convection cooling for Rated power
- Wide trimmable output voltage
- With Fan output, fan start-up at >30% loading
- EMI class B
- PF > 0.93
- -30°C to +70°C operating temperature
- 5,000m operation altitude

## Applications:

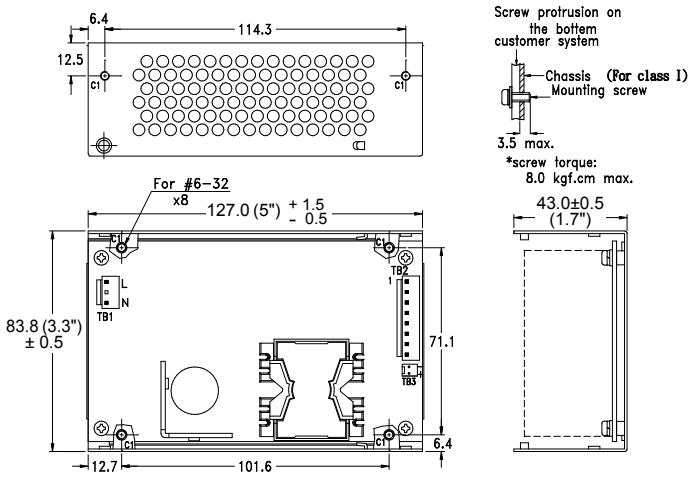
- For peak load and surge load applications, such as motor drive, coffee machine, vending machine, gaming machine, and other industrials.
- For EMI class B application, such as home healthcare device, and other medical devices.

## General Specifications:

Input voltage ..... 90 VAC to 264 VAC
Input frequency ..... 47 Hz to 63 Hz
Inrush current ..... < 40/80A at 115/230VAC
Efficiency ..... 90%
Hold up time ..... 20ms typical
Over load/Short circuit protection ..... auto recovery
Over voltage protection ..... latch off
Operating temperature ..... -30°C to 70°C
derating: 2.5% / °C > 50°C for convection cooling
Storage temperature ..... -40°C to +85°C

Cooling ..... 200W free air convection
300W 18 CFM forced
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

## Mechanical Specifications:




**Notes:**

1. Size:
   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: Molex 5273-08A or
   Terminal blocks or equivalent
   Fan: Molex 5045-02A or equivalent
4. Output Pin assignment:

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|
| Vo | Vo | Vo | Vo | GND | GND | GND | GND |

5. Packing:
   Net weight: 532 g approx. / unit
   Gross weight: 15.2 kg approx. / carton, 24 units / carton
   Carton size (mm): 384 (L) x 339 (W) x 327 (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-V207-U | +12V | 0A | 16.6A | 25A | 30A | +11.9V~+12.1V | 83% | 89% | 90% | 87.3% |
| SNP-V209-U | +24V | 0A | 8.3A | 12.5A | 15A | +23.9V~+24.1V | 83% | 89% | 90% | 87.3% |

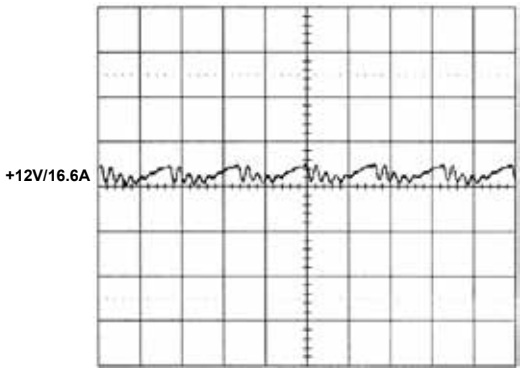
### Note:

1. **Output Load:**
   200W for convection cooling; 300W for forced air cooling.
2. **Peak Load Duration:**
   Peak 360W can last for 5 sec.
3. **Isolation Grade:**
   Primary ⟷ Ground : 1MOPP (1500Vac)
   Primary ⟷ Secondary : 2MOPP (4000Vac)
   Secondary ⟷ Ground : 1MOPP (1500Vac)
4. **Leakage Current:**
   Earth leakage current < 300uA
   Touch current < 100uA

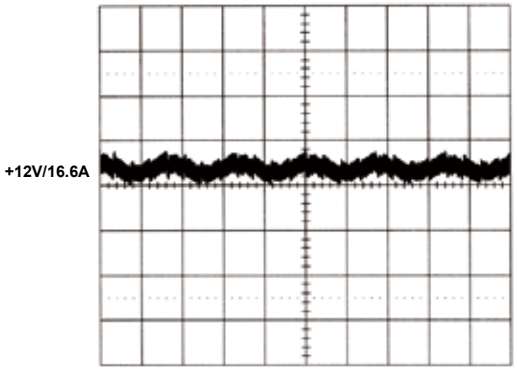
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## Performance for SNP-V207-U:

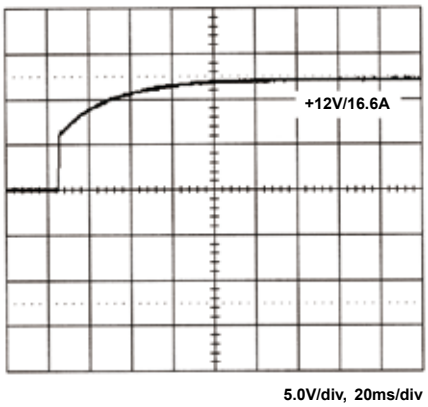
1. Switching frequency ripple



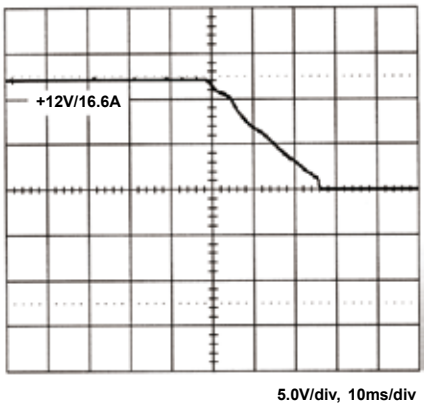

2. Line frequency ripple



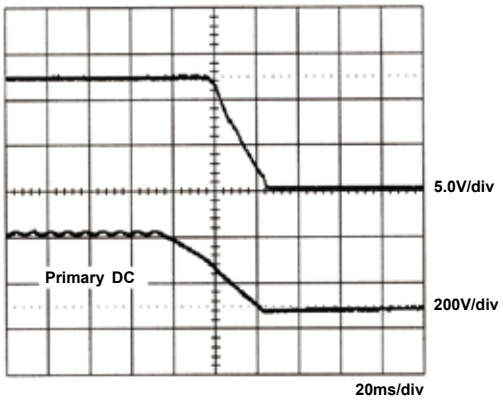

3. Output turn on wave form



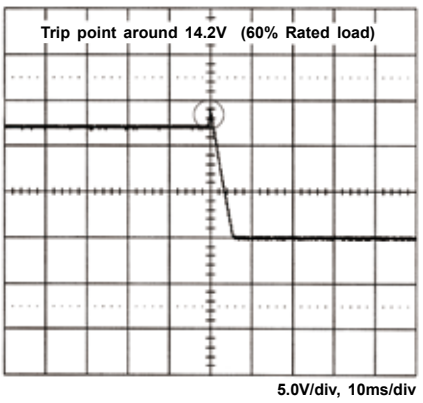

4. Output turn off wave form




5. Hold-up time

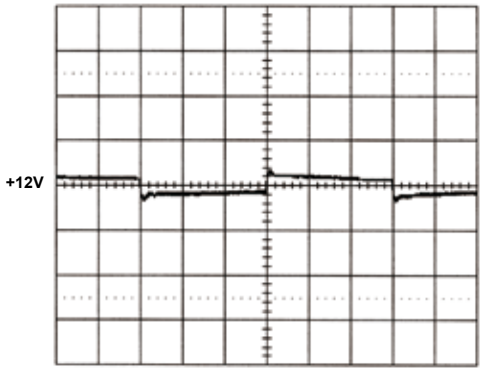



6. Over voltage protection

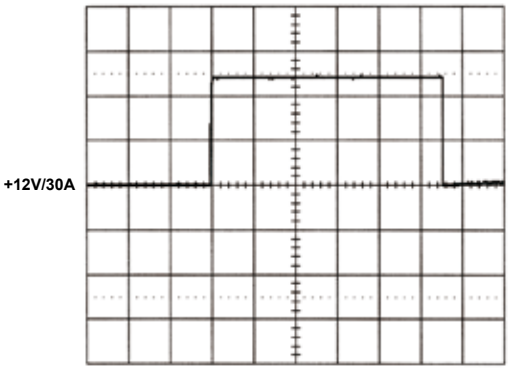



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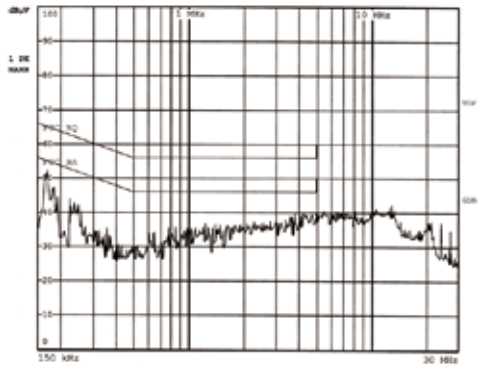
7. +12V step response



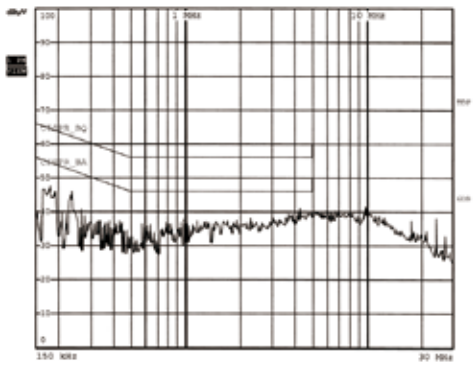

8. Peak load



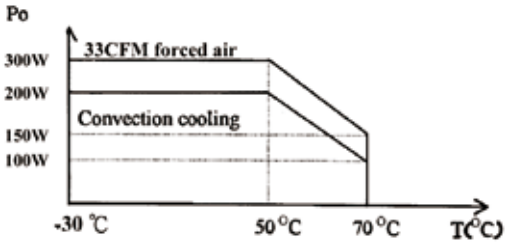

9. FCC B



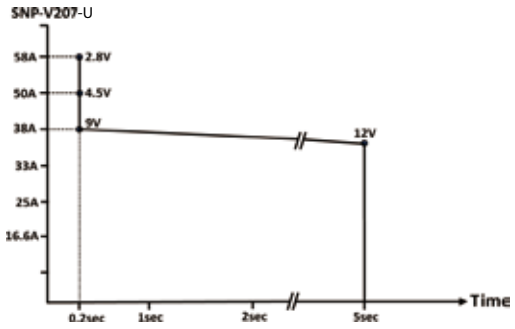
10. EN55011 22 B



11. Power derating curve




12. Capability for driving motor




-Jim-