

2014 Q4



**3" x 5" x 1.38"**

### Features:

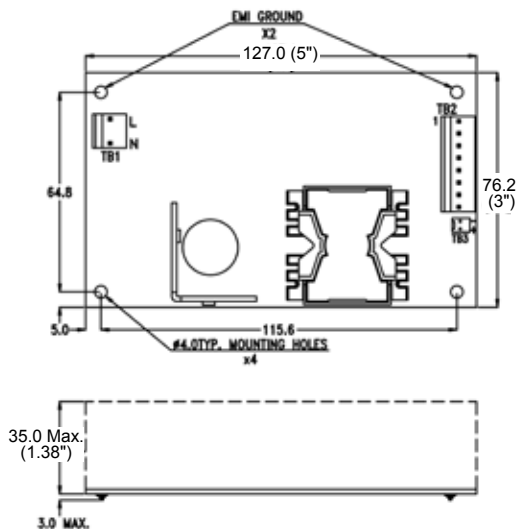
- Design for BF application
- Meet 2 X MOPP and Touch Current < 100uA
- Safety Class II & EMI Class B
- Follow ErP Directive of EU
- High mechanical torque start-up
- With Fan output
- Fan stop while load < 30% rated
- -30°C to +70°C operation
- 5,000m operation altitude
- Convection cooling for rated load
- Forced air for max. load

### 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, 2<sup>nd</sup> edition  
 ANSI/AMMI/CSA/EN60601-1, 3<sup>rd</sup> edition  
 CB report, CE mark, RM report/file

### Mechanical Specifications:



### Notes:

1. Size:  
3" x 5" x 1.38"
2. Mounting Hole:  
64.8 x 115.6 (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: 340 g approx. / unit  
Gross weight: 14.3 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:

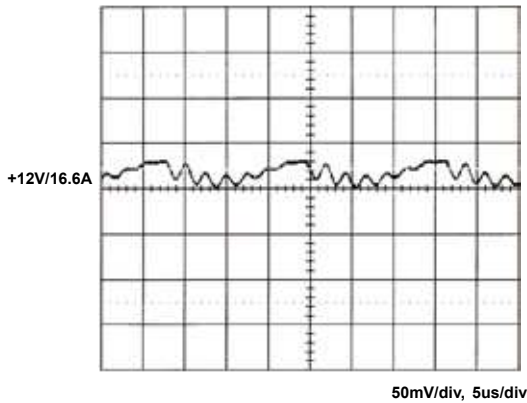
MODEL NO.	OUTPUT RAIL	LOAD				INITIAL ACCURACY	STEP EFFICIENCY			AVERAGE EFFICIENCY
		MIN.	RATED	MAX.	PEAK		@ 20% LOAD	@ 50% LOAD	@ 100% LOAD	
SNP-V207	+12V	0A	16.6A	25A	30A	+11.9V~+12.1V	83%	89%	90%	87.3%
SNP-V209	+24V	0A	8.3A	12.5A	15A	+23.9V~+24.1V	83%	89%	90%	87.3%

### Note:

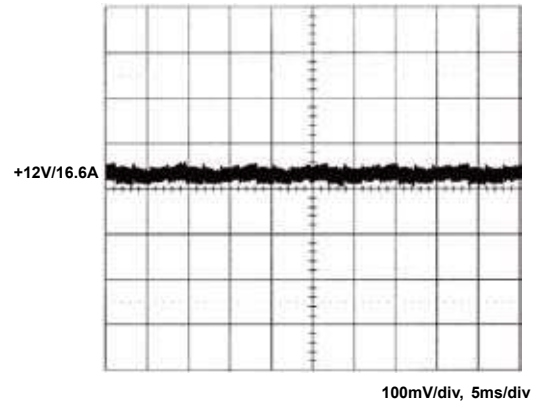
- Output Load:**  
200W for convection cooling; 300W for forced air cooling.
- Peak Load Duration:**  
Peak 360W can last for 5 sec.
- Isolation Grade:**  
Primary ↔ Ground : 1MOPP (1500Vac)  
Primary ↔ Secondary : 2MOPP (4000Vac)  
Secondary ↔ Ground : 1MOPP (1500Vac)
- Leakage Current:**  
Earth leakage current < 300uA  
Touch current < 100uA
- EMI Grounding:**  
If there is a metal sheet under the power supply, connect the EMI ground to that metal sheet.

**Performance for SNP-V207:**

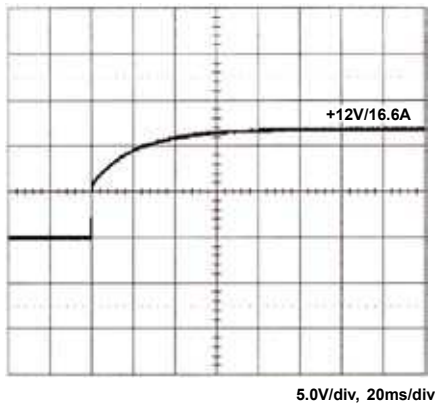
1. Switching frequency ripple



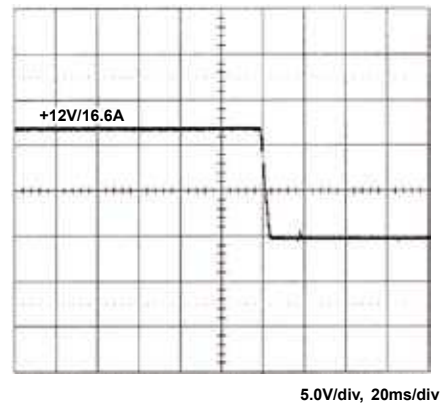
2. Line frequency ripple



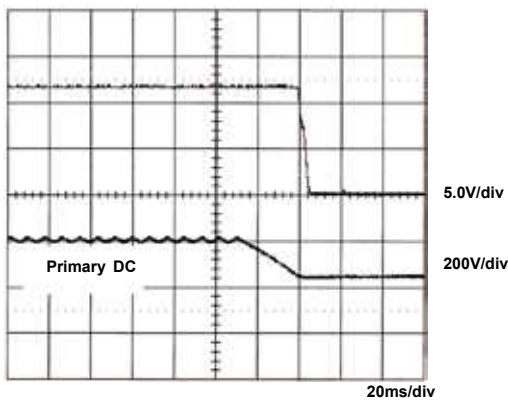
3. Output turn on wave form



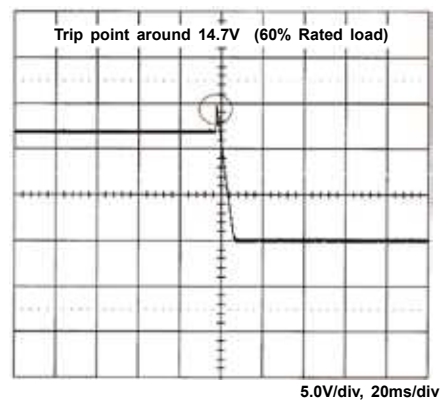
4. Output turn off wave form



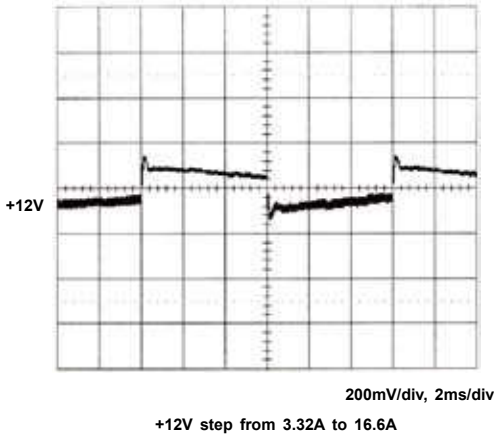
5. Hold-up time



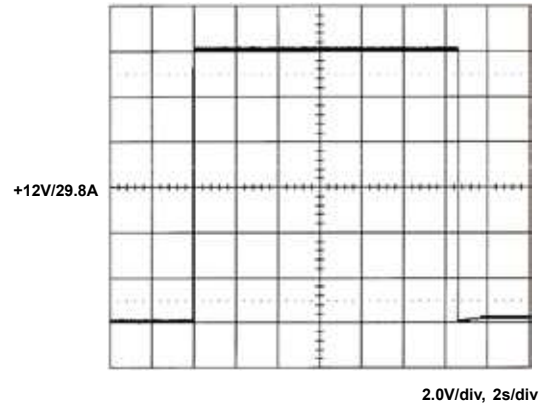
6. Over voltage protection



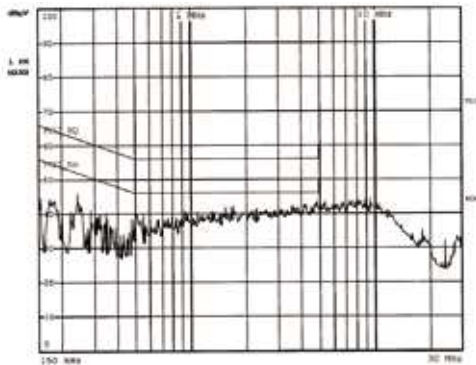
### 7. +12V step response



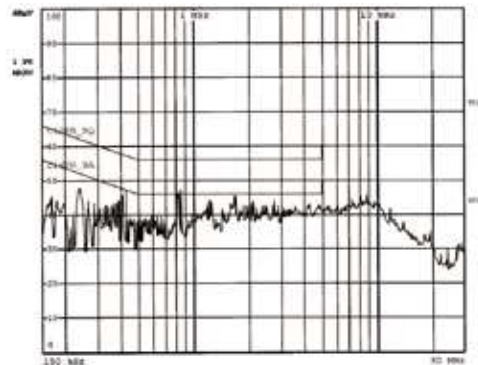
### 8. Peak load



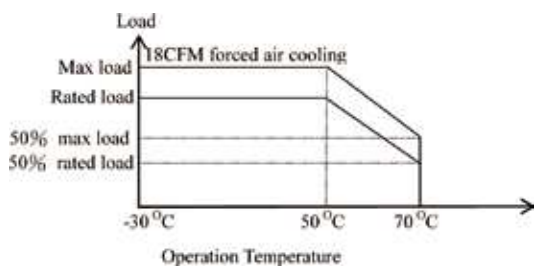
### 9. FCC B



### 10. CISPR B



### 11. Power derating curve



### 12. Capability for driving motor

