

120W Convection  
150W with 8 CFM  
200W Peak



- ITE & Medical Safety Approvals
- 2 MOPP Medical Safety Approvals
- Appropriate for BF applicaiton
- Built-in active PFC
- With ITE & Medical safety
- Rated load by convection
- Max. load by forced air
- High torque good for motor start up
- I/P < 0.5W when O/P < 50mW
- With 12V/0.5A output for fan
- 10 Year Warranty



### ITE Approved Models

Model No.	Output Rail	Load				Initial Accuracy*	Ripple & Noise	Efficiency
		Min	Rated	Max	Peak*			
SNP-G127-A	+12V	0A	10.0A	12.5A	16.7A	+11.9V~+12.1V	120mVpp	90%
SNP-G128-A	+15V	0A	8.0A	10.0A	13.4A	+14.9V~+15.1V	100mVpp	90%
SNP-G125-A	+18V	0A	6.6A	8.3A	11.1A	+17.9V~+18.1V	150mVpp	90%
SNP-G129-A	+24V	0A	5.0A	6.3A	8.3A	+23.9V~+24.1V	150mVpp	90%
SNP-G12G-A	+28V	0A	4.2A	5.4A	7.2A	+27.9V~+28.1V	150mVpp	90%
SNP-G12J-A	+36V	0A	3.3A	4.2A	5.6A	+35.8V~+36.2V	200mVpp	91%
SNP-G12T-A	+48V	0A	2.5A	3.1A	4.2A	+47.8V~+48.2V	250mVpp	91%

### Medical Approved Models

Model No.	Output Rail	Load				Initial Accuracy*	Ripple & Noise	Efficiency
		Min	Rated	Max	Peak*			
SNP-G127-MA	+12V	0A	10.0A	12.5A	16.7A	+11.9V~+12.1V	120mVpp	90%
SNP-G128-MA	+15V	0A	8.0A	10.0A	13.4A	+14.9V~+15.1V	100mVpp	90%
SNP-G125-MA	+18V	0A	6.6A	8.3A	11.1A	+17.9V~+18.1V	150mVpp	90%
SNP-G129-MA	+24V	0A	5.0A	6.3A	8.3A	+23.9V~+24.1V	150mVpp	90%
SNP-G12G-MA	+28V	0A	4.2A	5.4A	7.2A	+27.9V~+28.1V	150mVpp	90%
SNP-G12J-MA	+36V	0A	3.3A	4.2A	5.6A	+35.8V~+36.2V	200mVpp	91%
SNP-G12T-MA	+48V	0A	2.5A	3.1A	4.2A	+47.8V~+48.2V	250mVpp	91%

Power supplies which require <0.5W standby mode will create audible burst sound at light load.

Suffix A designates no burst sound by removing standby mode operation at 0.5W (which is the stocking standard part number).

If Standby mode with audible burst noise is required, remove suffix A (minimum quantities may apply).

#### 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: 120W for convection cooling; 150W for forced air cooling.
- Peak Load Duration: Peak 200W can last for 5 sec.
- Isolation Grade:
  - Primary Ground : 1MOPP (1500Vac)
  - Primary Secondary : 2MOPP (4000Vac)
  - Secondary Ground : 1MOPP (1500Vac)
- 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.

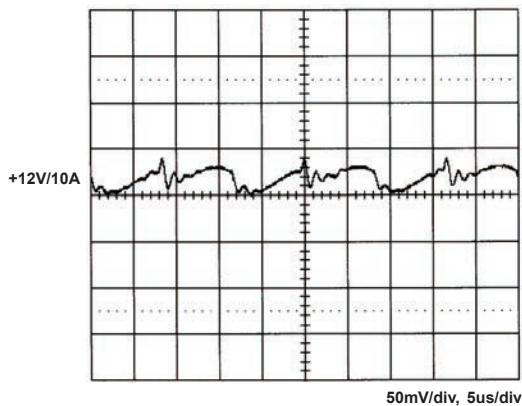
## General Specifications:

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 > 45°C for convection cooling  
 Storage temperature ..... -40°C to +85°C

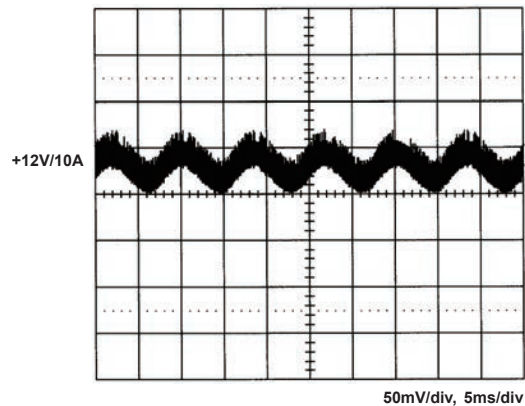
EMI ..... EN55022 "B", EN61000-3-3  
 Harmonics..... EN61000-3-2, class D  
 EMS..... EN61000-4-2,-3,-4,-5,-6,-8,-11  
 Safety ..... UL/CSA/EN60950-1, 2<sup>nd</sup> edition  
 ANSI/AMMI/CSA/EN60601-1, 3<sup>rd</sup> edition  
 CB report, CE mark, RM report/file  
 Energy Saving (for w/o -A suffix) ..... ENERGY STAR  
 for computers version 6.0  
 for displays version 6.0  
 ErP regulation EC(No) 1275/2008

## Performance for SNP-G127:

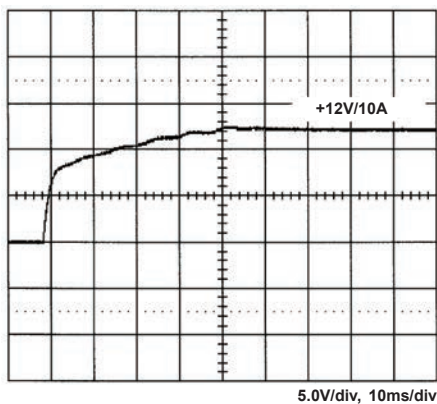
### 1. Switching frequency ripple



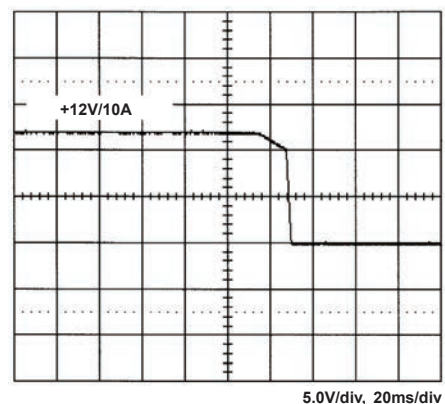
### 2. Line frequency ripple



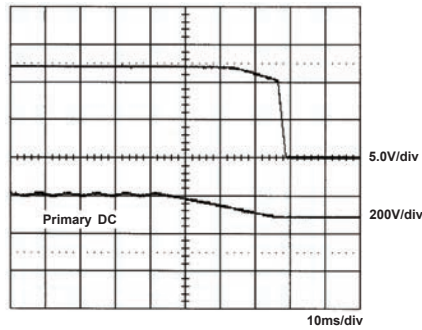
### 3. Output turn on wave form



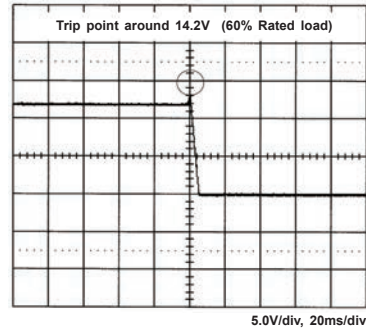
### 4. Output turn off wave form



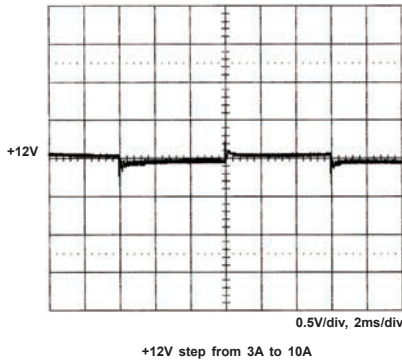
5. Hold-up time



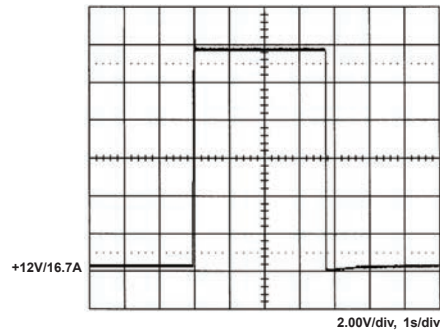
6. Over voltage protection



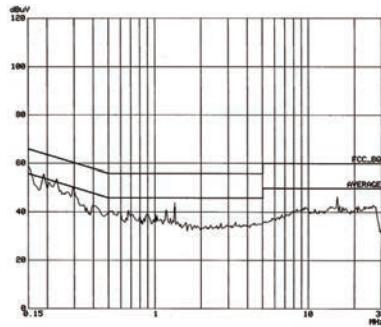
7. +12V step response



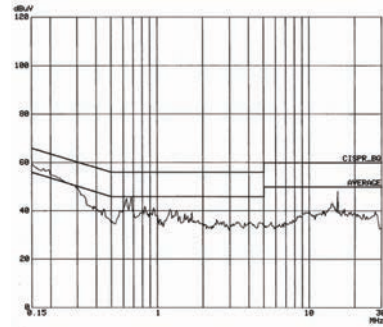
8. +12V peak load



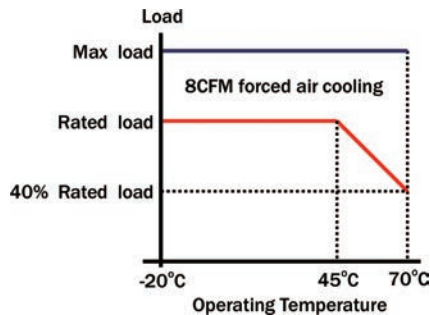
9. FCC B



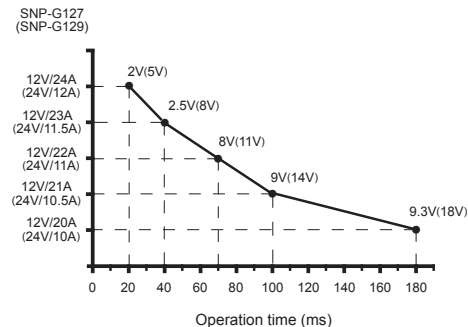
10. CISPR 22 B



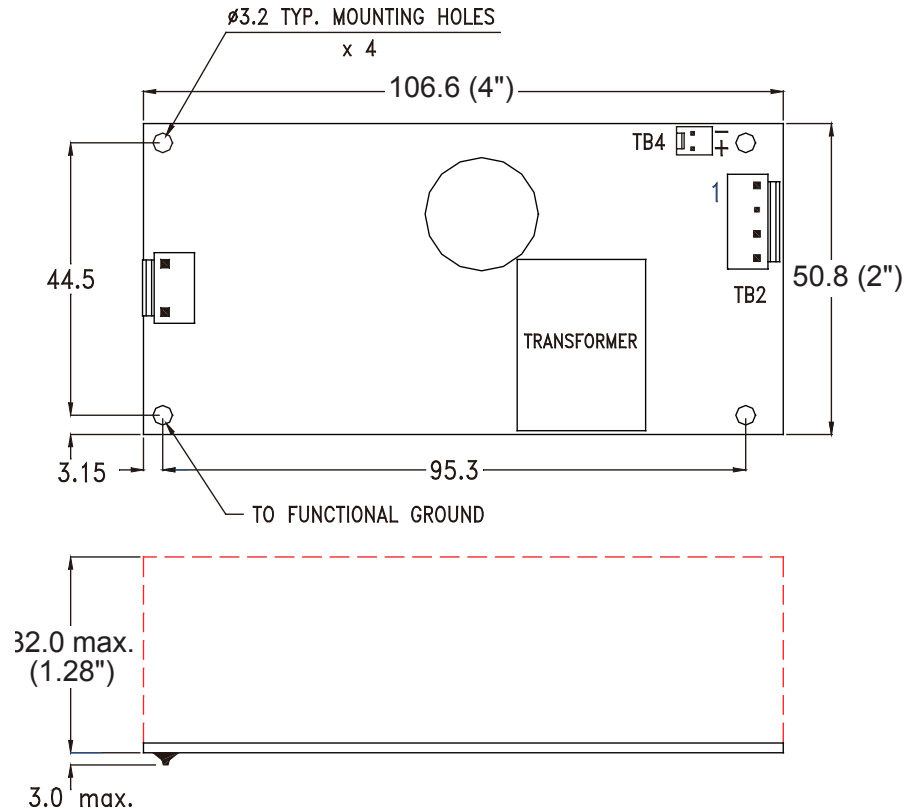
11. Power derating curve



12. Capability for driving motor



**MECHANICAL DRAWING**



**Notes:**

- Size:  
2" x 4" x 1.28"
  - Mounting Hole:  
44.5 x 95.3 (mm)
  - Connectors:  
AC input: JST B2P3-VH or equivalent  
DC output: JST 710--VH04  
Fan: Molex 5045-02A or equivalent
  - Output Pin assignment:

1	2	3	4
Vo	Vo	GND	GND
- Function Pin assignment:
- |              |            |
|--------------|------------|
|              | TB3        |
| Function Pin | FAN Output |
| 1            | GND        |
| 2            | +12V       |

- Packing:  
Net weight: 160 g approx. / unit  
Gross weight: 10 kg approx. / carton, 80 units / carton  
Carton size (mm): 422 (L) x 412 (W) x 287 (H)