THE RELIABLE SOURCE

Medical & ITE

General Purpose

Rated 80W
Max. 100W
Peak 120W
SNP-HF8 Series



2" x 4" x 1.18"

Features:

- Peak load (1.5 x rated current, Vo=rated for 5 sec)
- Design for BF application
- Convection cooling for Rated power
- No load < 0.3W
- (-A) for no burst sound
- (-H) for home healthcare application
- -40°C to +70°C operating temperature
- 5,000m operation altitude

Applications:

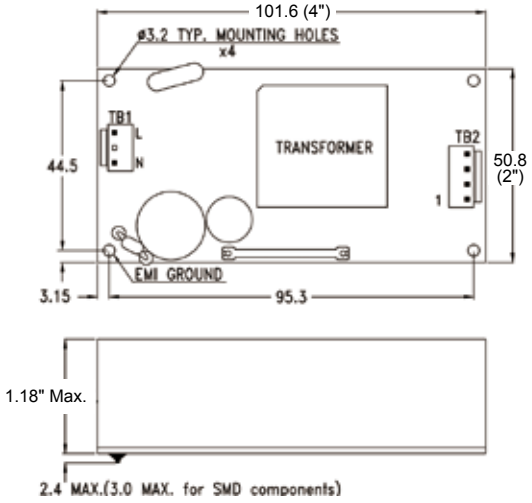
- For peak load applications, such as motor drive, coffee machine, vending machine, gaming machine, and other industrials.
- For input class II and EMI class B application, such as home healthcare device, and other medical devices.

General Specifications:

Input voltage ..... 90 VAC to 264 VAC
Input frequency ..... 47 Hz to 63 Hz
Inrush current ..... < 30/60A at 115/230VAC
Hold up time 16ms
Over load/Short circuit protection ..... auto recovery
Over voltage protection ..... latch off
Operating temperature ..... -40°C to 70°C
derating: 2.5% / °C > 50°C for convection cooling
Storage temperature ..... -40°C to +85°C

EMI ..... EN55011 "B", EN61000-3-3
Harmonics..... EN61000-3-2, class A
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 ..... ENERGY STAR
for computers version 6.0
for displays version 6.0
ErP regulation EC(No) 1275/2008

Mechanical Specifications:



Notes:

1. Size:
   2" x 4" x 1.18"
2. Mounting Hole:
   44.5 x 95.3 (mm)
3. Connectors:
   AC input: JST B2P3-VH or Molex 5277-02A or equivalent
   DC output: JST B4P-VH or Molex 5273-04A or equivalent
4. Output Pin assignment:

1	2	3	4
Vo	Vo	GND	GND

5. Packing:
   Net weight: 160 g approx. / unit
   Gross weight: 15 kg approx. / carton, 80 units / carton
   Carton size (mm): 382 (L) x 374 (W) x 277 (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-HF87 SNP-HF87-A SNP-HF87-H	+12V	0A	6.66A	7.5A	9A	+11.8V~+12.2V	85% 80%	86% 83%	87% 83%	86% 82%
SNP-HF88 SNP-HF88-A SNP-HF88-H	+15V	0A	5.33A	6.66A	8A	+14.8V~+15.2V	85% 80%	86% 84%	87% 86%	86% 82%
SNP-HF89 SNP-HF89-A SNP-HF89-H	+24V	0A	3.33A	4.6A	5.3A	+23.8V~+24.2V	85% 82%	86% 85%	87% 86%	86% 85%
SNP-HF8T SNP-HF8T-A SNP-HF8T-H	+48V	0A	1.67A	2.1A	2.71A	+47.6V~+48.4V	85% 83%	86% 87%	87% 86%	86% 85%

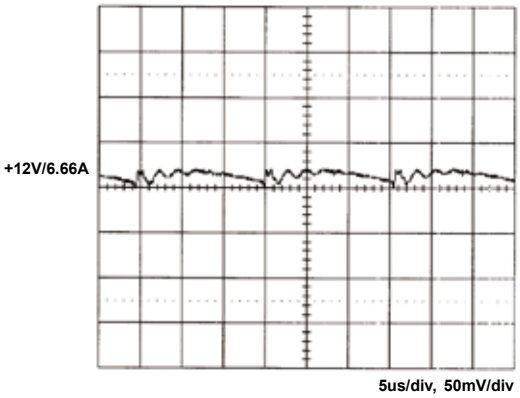
Note:

1. **Standby Power Cosumption 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.
2. **Output Load:**
   80W for convection cooling; 100W for forced air cooling.
3. **Peak Load Duration:**
   Peak 120W can last for 5 sec.
4. **Isolation Grade:**
   Primary ⟷ Ground : 1MOPP (1500Vac)
   Primary ⟷ Secondary : 2MOPP (4000Vac)
   Secondary ⟷ Ground : 1MOPP (1500Vac)
5. **Leakage Current:**
   Earth leakage current < 300uA
   Touch current < 100uA
6. **EMI Grounding:**
   If there is a metal sheet under the power supply, connect the EMI ground to that metal sheet.
7. **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-HF8x is for ITE & Medical applications which require standby mode.
   SNP-HF8x-A is for ITE & Medical applications but without burst sound and no standby mode.
   SNP-HF8x-H is for Home Healthcare Application, intput class II and EMI class B.
8. The safety application will be proceeded upon request.

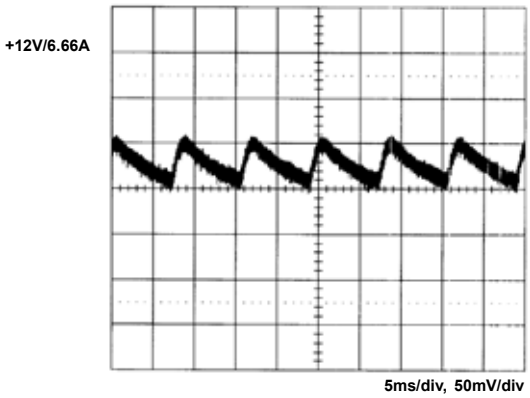
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Performance for SNP-HF87-A:

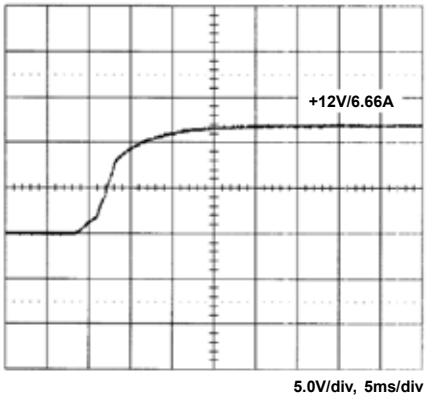
1. Switching frequency ripple



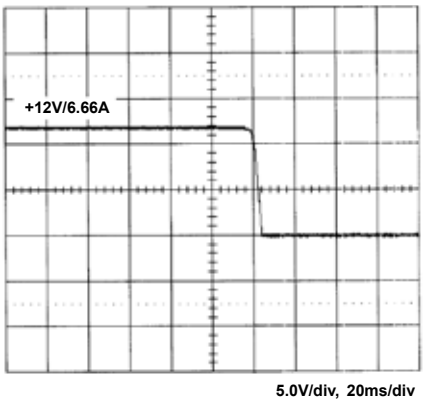
2. Line frequency ripple



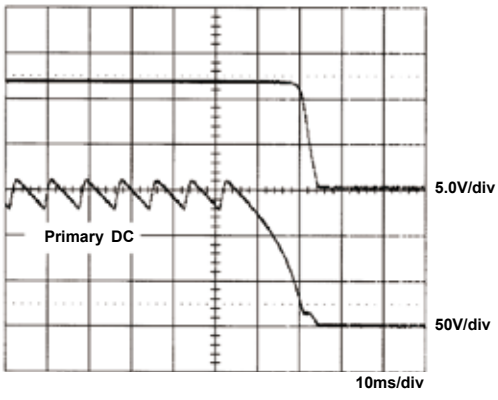
3. Output turn on wave form



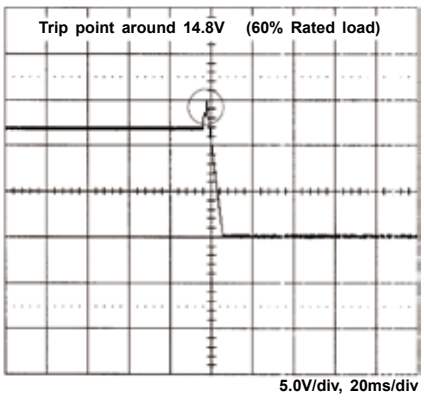
4. Output turn off wave form



5. Hold-up time

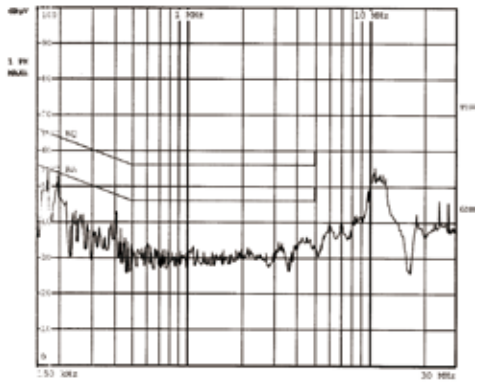


6. Over voltage protection

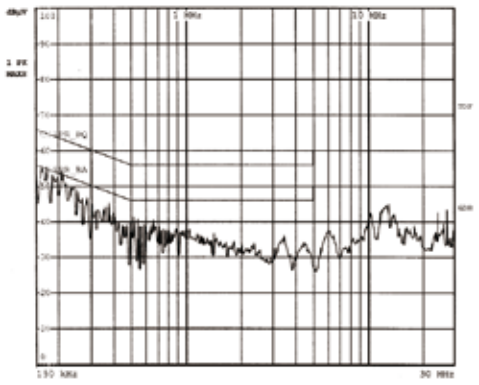


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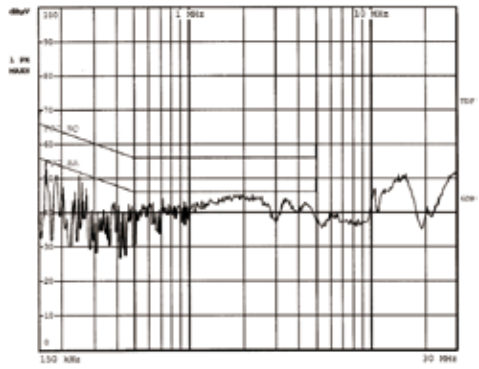
7. FCC B Class I



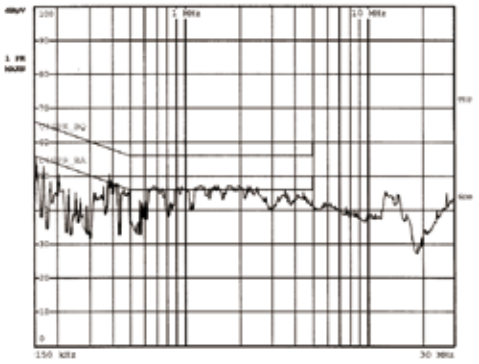
8. EN55011 22 B Class I



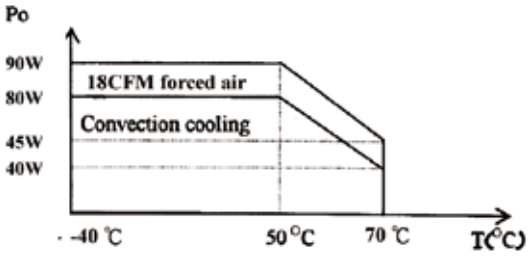
9. FCC B Class II



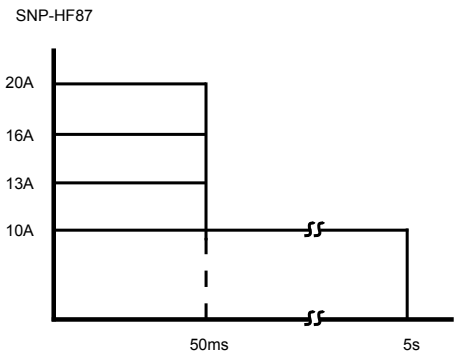
10. EN55011 22 B Class II



11. Power derating curve



12. Torque capability



-Jim-