THE RELIABLE SOURCE

Medical & ITE

General Purpose

Rated 30W
Max. 40W
Peak 45W
SNP-HF3 Series



1.57" x 2.76" x 0.93"

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
- For home healthcare application
- -40°C to +70°C operating temperature
- 5,000m operation altitude

Applications:

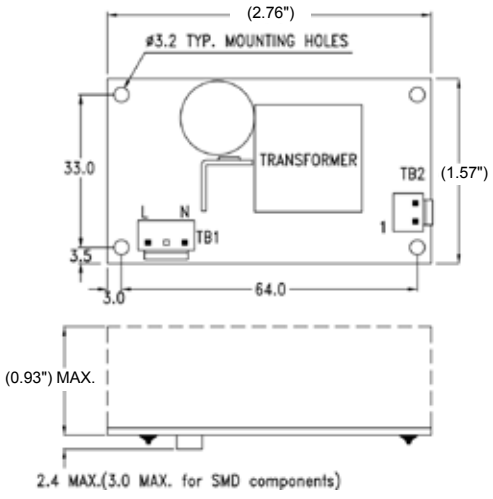
- For peak load applications, such as motor drive, coffee machine, vending machine, gaming machine, and other industrials.
- For input class II and EMI class B application, such as home healthcare device, and other medical devices.

General Specifications:

Input voltage ..... 90 VAC to 264 VAC
Input frequency ..... 47 Hz to 63 Hz
Inrush current ..... < 40/80A at 115/230VAC
Hold up time 16ms
Over load/Short citcuit protection ..... auto recovery
Over voltage protection ..... latch off
Operating temperature ..... -40°C to 70°C
derating: 2.5% / °C > 50°C
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:
   1.57" x 2.76" x 0.93"
2. Mounting Hole:
   33 x 64 (mm)
3. Connectors:
   AC input: JST B2P3-VH or Molex 5277-02A or equivalent
   DC output: JST B2P-VH or Molex 5273-02A or equivalent
4. Output Pin assignment:

1	2
Vo	GND

5. Packing:
   Net weight: 61 g approx. / unit
   Gross weight: 12 kg approx. / carton, 150 units / carton
   Carton size (mm): 412 (L) x 327 (W) x 283 (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-HF37	+12V	0A	2.5A	3.33A	3.75A	+11.8V~+12.2V	86%	87%	86%	86%
SNP-HF37-A							72%	80%	82%	77%
SNP-HF38	+15V	0A	2A	2.67A	3A	+14.8V~+15.2V	86%	87%	86%	86%
SNP-HF38-A							74%	81%	82%	78%
SNP-HF39	+24V	0A	1.25A	1.67A	1.88A	+23.8V~+24.2V	86%	87%	86%	86%
SNP-HF39-A							74%	80%	84%	78%
SNP-HF3T	+48V	0A	0.63A	0.83A	0.94A	+47.6V~+48.4V	86%	87%	86%	86%
SNP-HF3T-A							79%	85%	86%	83%

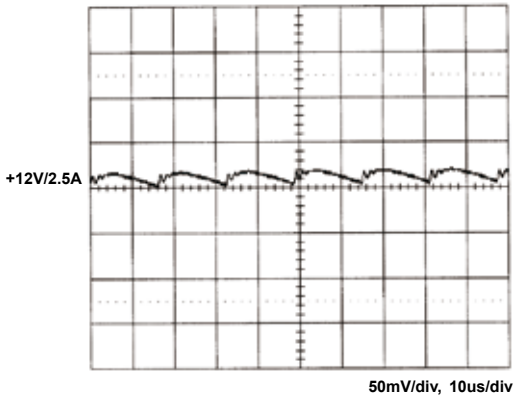
Note:

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:**
   30W for convection cooling; 40W for forced air cooling.
3. **Peak Load Duration:**
   Peak 45W 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-HF3x is for ITE & Medical applications which require standby mode.
   SNP-HF3x-A is for ITE & Medical applications but without burst sound and no standby mode.
8. The safety application will be proceeded upon request.

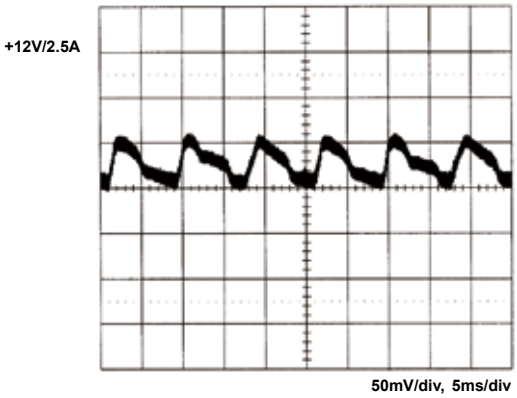
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Performance for SNP-HF37-A:

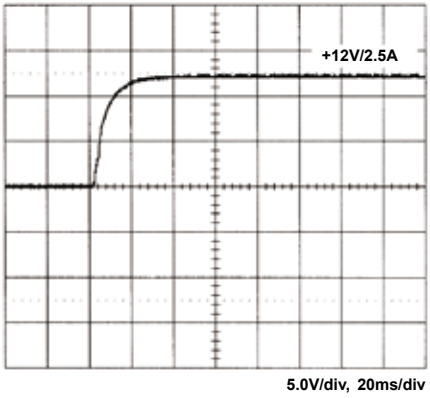
1. Switching frequency ripple



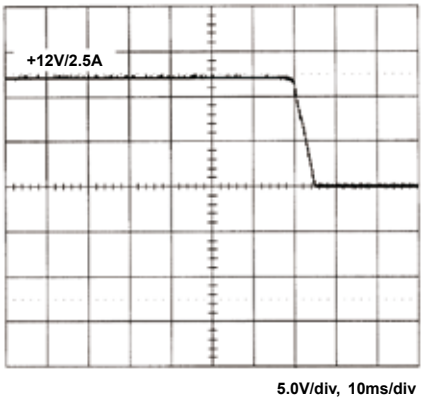
2. Line frequency ripple



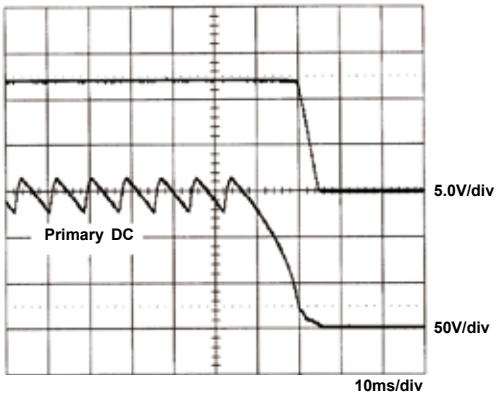
3. Output turn on wave form



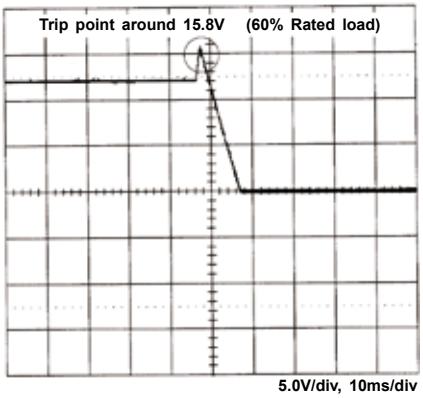
4. Output turn off wave form



5. Hold-up time

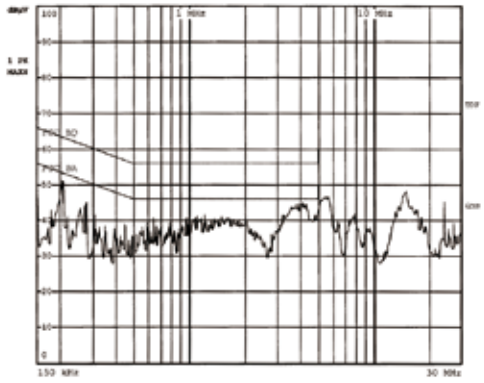


6. Over voltage protection

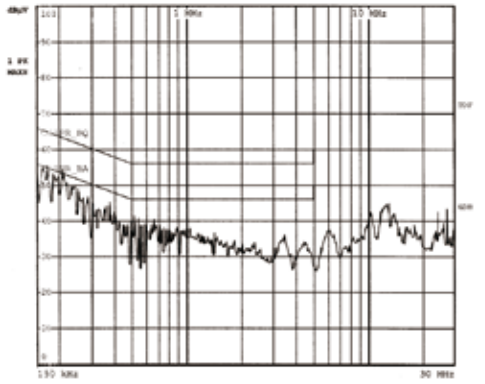


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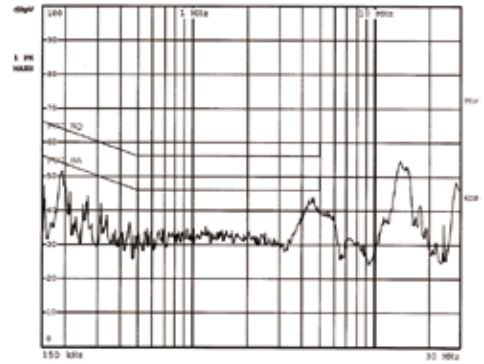
7. FCC B Class I



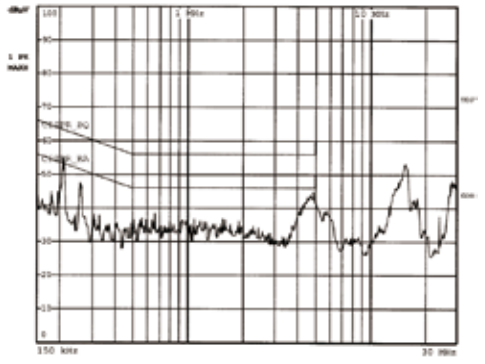
8. EN55011 22 B Class I



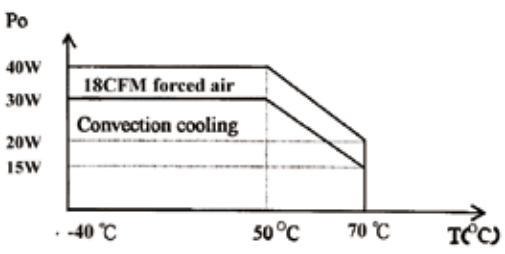
9. FCC B Class II



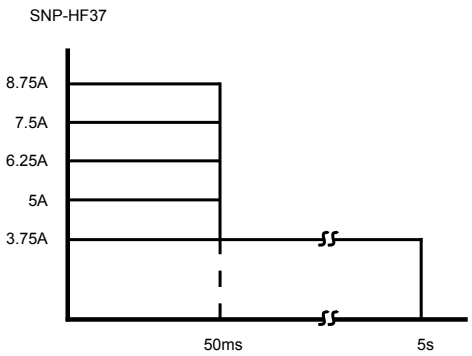
10. EN55011 22 B Class II



11. Power derating curve



12. Torque capability



-Jim-