

Medical & ITE General Purpose

E-mail: sales@winsunpower.com

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:

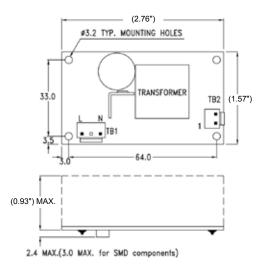
- For peak load applications, such as motor drive, coffee machine, vending machine, gaming machine, and other industrials.
- For input class II and EMI class B application, such as home healthcare device, and other medical devices.

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	1 auto recovery
Over voltage protection	latch off
Operating temperature	40°C to 70°C
	derating: $2.5\% / ^{\circ}\text{C} > 50 ^{\circ}\text{C}$
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, 2 nd 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

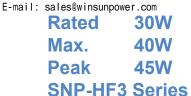
Packing:

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)

10 years Warranty (contact Skynet's Distributors for details)





Output Specifications:

THE RELIABLE SOURCE

MODEL	OUTPUT	LOAD				INITIAL	STEP EFFICIENCY			AVERAGE
NO.	RAIL	MIN.	RATED	MAX.	PEAK	ACCURACY	@ 20% LOAD	@ 50% LOAD	@ 100% LOAD	EFFICIENCY
SNP-HF37 SNP-HF37 -A	+12V	0A	2.5A	3.33A	3.75A	+11.8V~+12.2V	86% 72%	87% 80%	86% 82%	86% 77%
SNP-HF38 SNP-HF38-A	+15V	0A	2A	2.67A	3A	+14.8V~+15.2V	86% 74%	87% 81%	86% 82%	86% 78%
SNP-HF39 SNP-HF39 -A	+24V	0A	1.25A	1.67A	1.88A	+23.8V~+24.2V	86% 74%	87% 80%	86% 84%	86% 78%
SNP-HF3T SNP-HF3T-A	+48V	0A	0.63A	0.83A	0.94A	+47.6V~+48.4V	86% 79%	87% 85%	86% 86%	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:

 $\begin{array}{lll} \text{Primary} & \longleftrightarrow & \text{Ground} & : 1\text{MOPP} (1500\text{Vac}) \\ \text{Primary} & \longleftrightarrow & \text{Secondary} & : 2\text{MOPP} (4000\text{Vac}) \\ \text{Secondary} & \longleftrightarrow & \text{Ground} & : 1\text{MOPP} (1500\text{Vac}) \end{array}$

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.



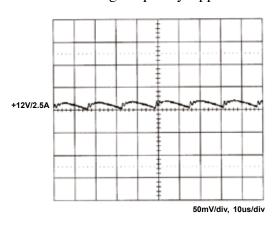
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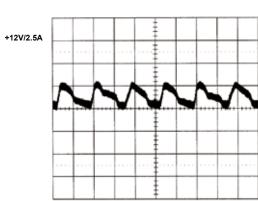
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Performance for SNP-HF37-A:

1. Switching frequency ripple

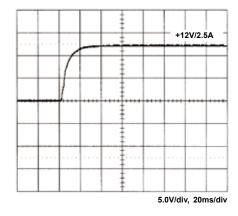


2. Line frequency ripple

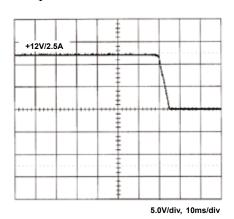


50mV/div, 5ms/div

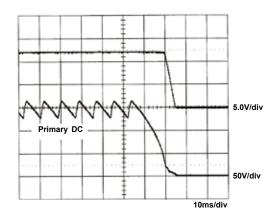
3. Output turn on wave form



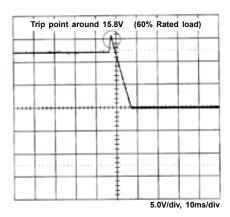
4. Output turn off wave form



5. Hold-up time



6. Over voltage protection





30W Rated Max. **40W**

Peak

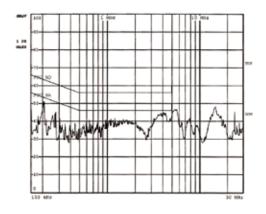




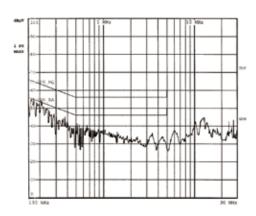


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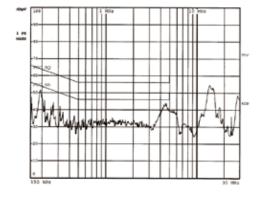
7. FCC B Class I



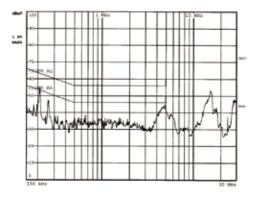
8. EN55011 22 B Class I



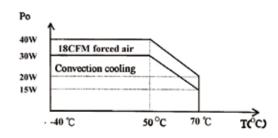
9. FCC B Class II



10. EN55011 22 B Class II



11. Power derating curve



12. Torque capability

