

Medical & ITE

General Purpose

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



2" x 4" x 1.18"

General Specifications:

Input voltage	90 VAC to 264 VAC
1	
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	0°C for convection cooling
Storage temperature	-40°C to +85°C

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

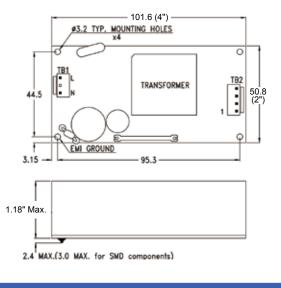
Applications:

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

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:

-Iim-



Notes:

- 1. Size:
 - 2" x 4" x 1.18"
- Mounting Hole: 44.5 x 95.3 (mm)
- 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)

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



Medical & ITE General Purpose

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

Output Specifications:

MODEL	OUTPUT	LOAD				INITIAL	STEP EFFICIENCY			AVERAGE
NO.	RAIL	MIN.	RATED	MAX.	PEAK	ACCURACY	@ 20% LOAD	@ 50% LOAD	@ 100% LOAD	EFFICIENCY
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:

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

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-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.

-Jim-

4-2

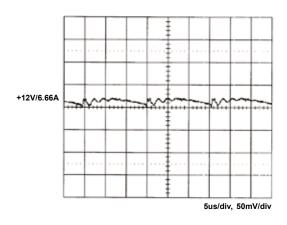


Medical & ITE General Purpose

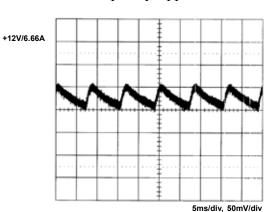
Rated 80W Max. 100W Peak 120W SNP-HF8 Series

Performance for SNP-HF87-A:

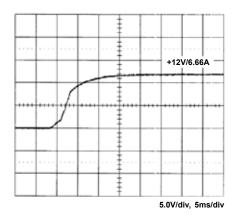
1. Switching frequency ripple



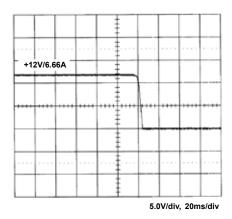
2. Line frequency ripple



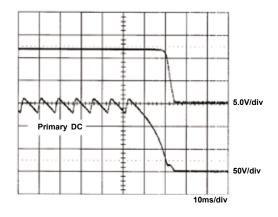
3. Output turn on wave form



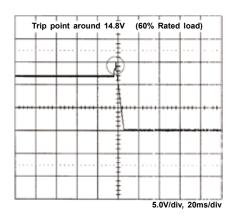
4. Output turn off wave form



5. Hold-up time



6. Over voltage protection



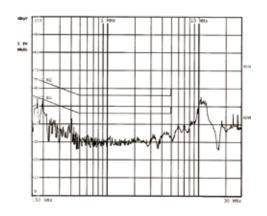
-Jim-



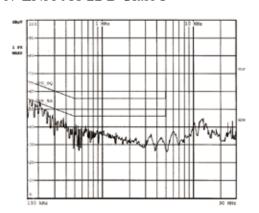
Medical & ITE General Purpose

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

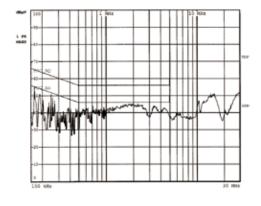
7. FCC B Class I



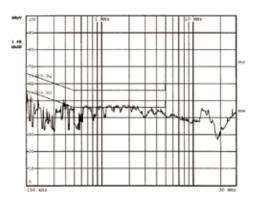
8. EN55011 22 B Class I



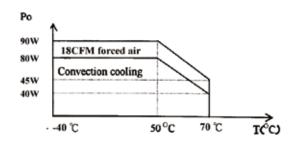
9. FCC B Class II



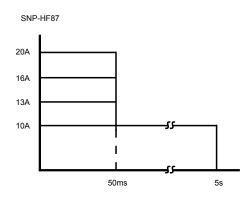
10. EN55011 22 B Class II



11. Power derating curve



12. Torque capability



-Jim-

4-4