

Medical & ITE

General Purpose

Rated60WMax.72WPeak96WSNP-HF6Series

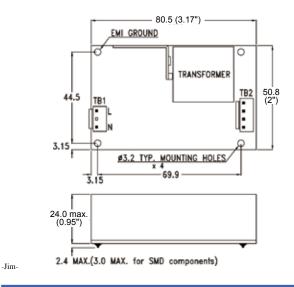


2" x 3.17" x 0.95"

General Specifications:

Input voltage	
Input frequency	47 Hz to 63 Hz
Inrush current	< 30/60A at 115/230VAC
Hold up time	16ms
Over load/Short circuit protection	a 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

Mechanical Specifications:



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 $+70^{\circ}$ 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.

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
Safety	UL/CSA/EN60950-1, 2 nd edition ANSI/AMMI/CSA/EN60601-1, 3.1 edition CB report, CE mark, RM report/file ENERGY STAR for computers version 6.0 for displays version 6.0

Notes:

5.

- 1. Size:
- 2" x 3.17" x 0.95" 2. Mounting Hole:
- 44.5 x 69.9 (mm)
- 3. Connectors:
- AC input: JST B2P3-VH or equivalent DC output: JST B4P-VH or equivalent
- 4. Output Pin assignment:

1	2	3	4	
Vo	Vo	GND	GND	

Packing: Net weight: 114 g approx. / unit Gross weight: 14 kg approx. / carton, 100 units / carton Carton size (mm): 437 (L) x 402 (W) x 240 (H)

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



Output Specifications:

MODEL	OUTPUT	LOAD				INITIAL	STEP EFFICIENCY			AVERAGE
NO.	RAIL	MIN.	RATED	MAX.	PEAK	ACCURACY	@ 20% LOAD	@ 50% LOAD	@ 100% LOAD	EFFICIENCY
SNP-HF67 SNP-HF67 - A SNP-HF67 - H	+12V	0A	5A	6.67A	7.5A	+11.8V~+12.2V	88% 78%	89% 83%	86% 84%	87% 82%
SNP-HF68 SNP-HF68 - A SNP-HF68 - H	+15V	0A	4A	5.33A	6A	+14.8V~+15.2V	88% 75%	89% 85%	86% 85%	87% 82%
SNP-HF69 SNP-HF69 - A SNP-HF69 - H	+24V	0A	2.5A	3.33A	3.75A	+23.8V~+24.2V	88% 75%	89% 83%	86% 85%	87% 82%
SNP-HF6T SNP-HF6T-A SNP-HF6T-H	+48V	0A	1.25A	1.67A	1.88A	+47.5V~+48.5V	88% 79%	89% 84%	86% 87%	87% 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:**

60W for convection cooling; 72W for forced air cooling.

3. **Peak Load Duration:** Peak 96W can last for 5 sec.

4. **Isolation Grade:**

Primary \leftrightarrow Ground : 1MOPP (1500Vac) Primary \leftrightarrow Secondary : 2MOPP (4000Vac)

Secondary \leftrightarrow 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-HF6x is for ITE & Medical applications which require standby mode.

SNP-HF6x-A is for ITE & Medical applications but without burst sound and no standby mode.

SNP-HF6x-H is for Home Healthcare application, input class II and EMI class B.

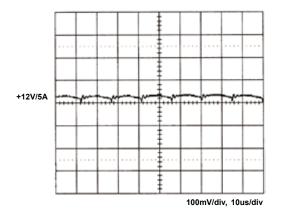
8. The safety application will be proceeded upon request.

-Jim-

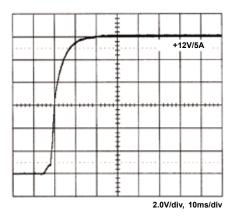


Performance for SNP-HF67-A:

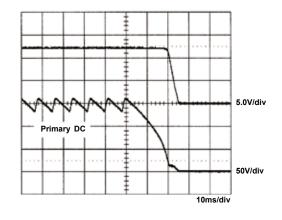
1. Switching frequency ripple



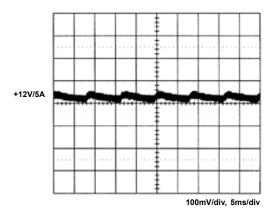
3. Output turn on wave form



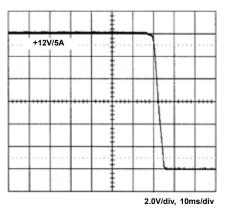
5. Hold-up time



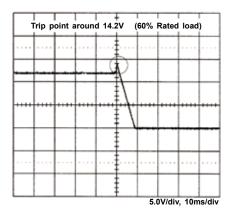
2. Line frequency ripple



4. Output turn off wave form



6. Over voltage protection

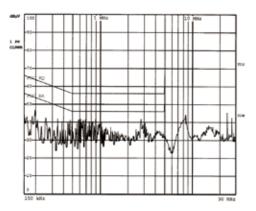


-Jim-

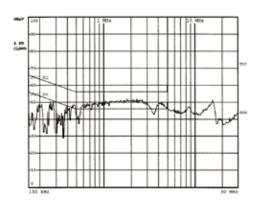


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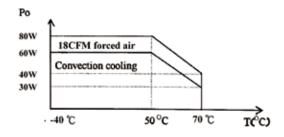
7. FCC B Class I



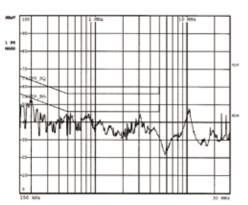
9. FCC B Class II



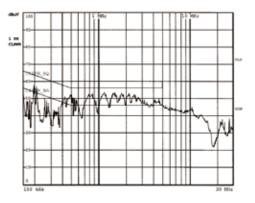
11. Power derating curve



8. EN55011 22 B Class I



10. EN55011 22 B Class II



12. Power derating curve

