Medical & ITE
General Purpose

Rated 60W
Max. 72W
Peak 96W
SNP-HF6 Series

2" x 3.17" x 0.95"

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:

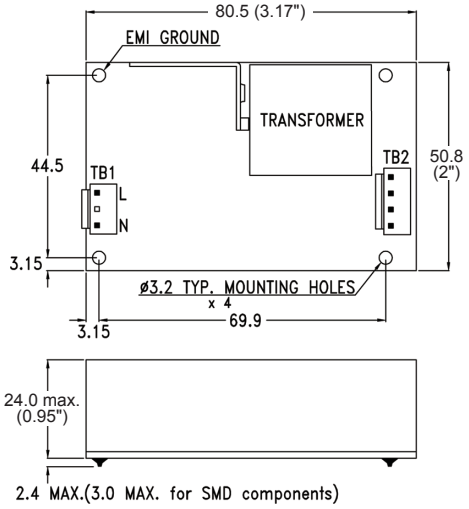
- For peak load applications, such as motor drive, coffee machine, vending machine, gaming machine, and other industrials.
- For input class II and EMI class B application, such as home healthcare device, and other medical devices.

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
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 60950-1, 2nd edition
	EN 62368-1, 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 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

5. 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)

-Jim-

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

Output Specifications:

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

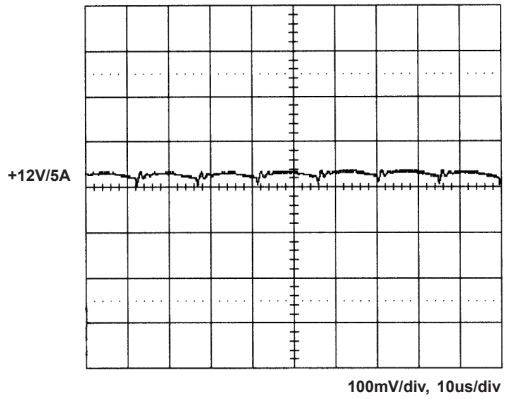
Note:

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 ⟷ 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-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.

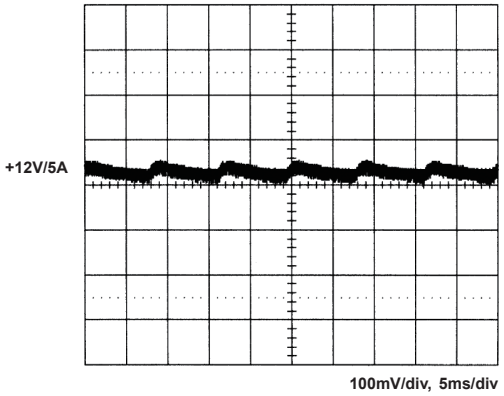
-Jim-

Performance for SNP-HF67-A:

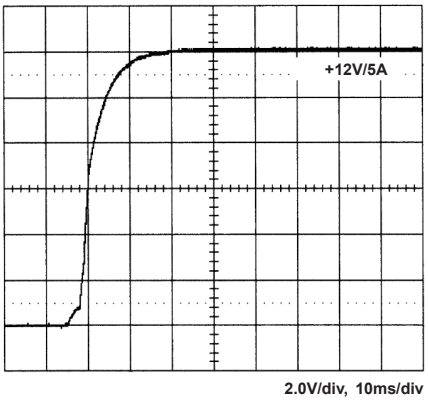
1. Switching frequency ripple



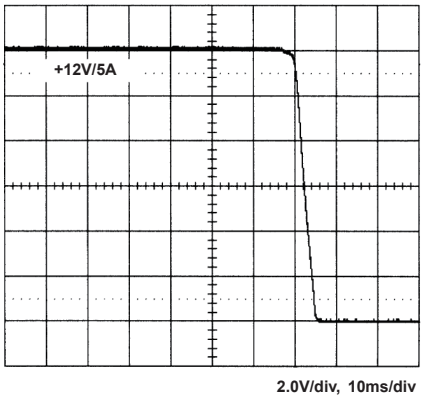
2. Line frequency ripple



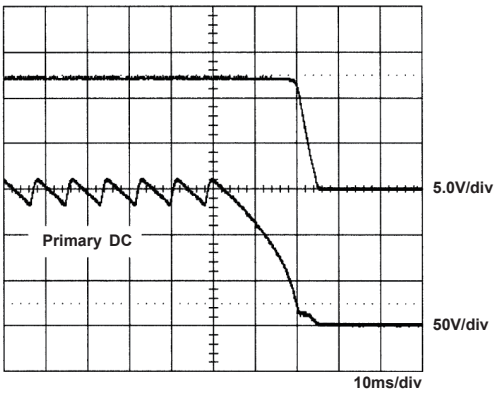
3. Output turn on wave form



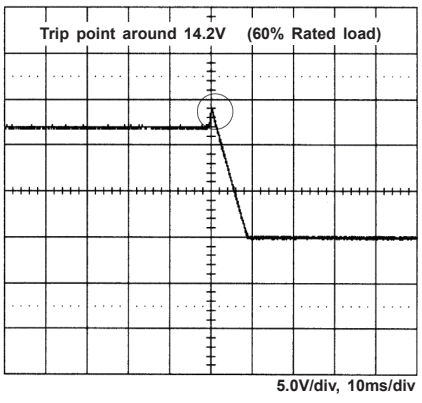
4. Output turn off wave form



5. Hold-up time



6. Over voltage protection



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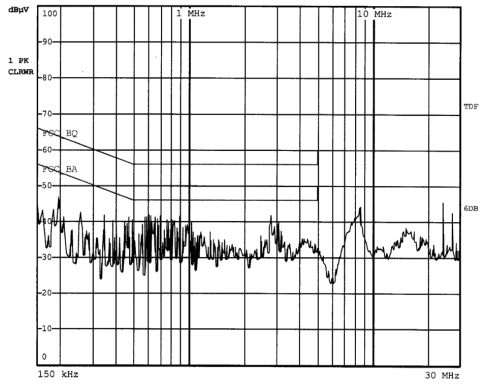
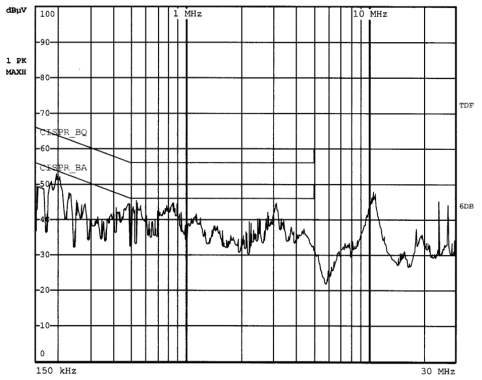
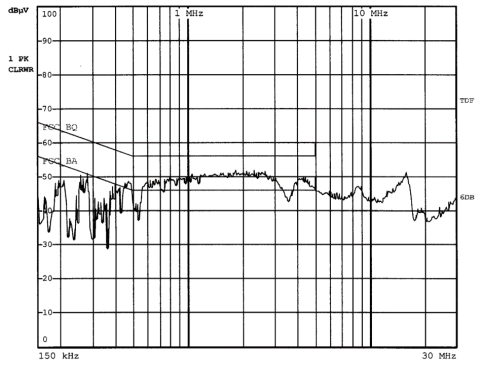
7. FCC B Class I



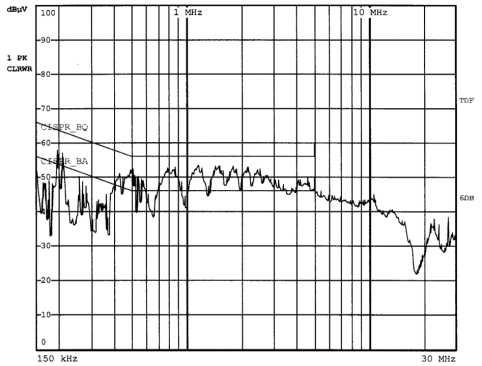
8. EN55011 22 B Class I



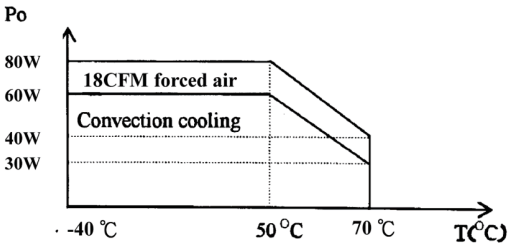
9. FCC B Class II



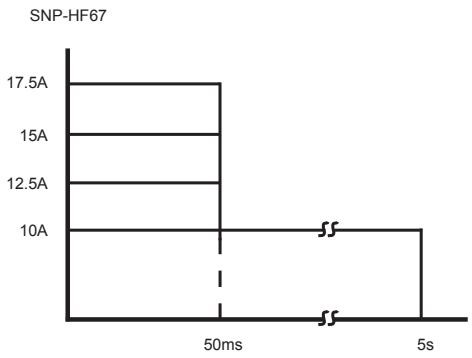
10. EN55011 22 B Class II



11. Power derating curve



12. Power derating curve



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