



2" x 4" x 1.34" (Max.)

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:

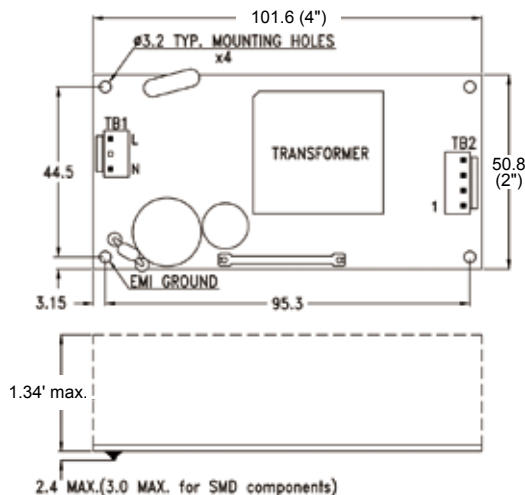
- For peak load applications, such as motor drive, coffee machine, vending machine, gaming machine, and other industrials.
- For input class II and EMI class B application, such as home healthcare device, and other medical devices.

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 for convection cooling
 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:
 SNP-HFA7/-A/-H : 2" x 4" x 1.32"
 SNP-HFA8/-A/-H : 2" x 4" x 1.34"
 SNP-HFA9/-A/-H : 2" x 4" x 1.18"
 SNP-HFAT/-A/-H : 2" x 4" x 1.20"
2. Mounting Hole:
 44.5 x 95.3 (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
GND	GND	Vo	Vo
5. Packing:
 Net weight: 165 g approx. / unit
 Gross weight: 15.5 kg approx. / carton, 80 units / carton
 Carton size (mm): 382 (L) x 374 (W) x 277 (H)

-Jim-

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

Output Specifications:

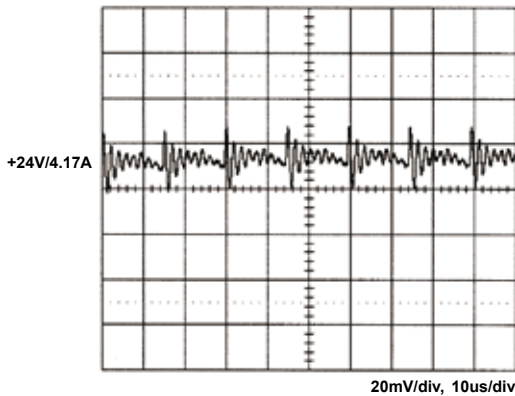
MODEL NO.	OUTPUT RAIL	LOAD				INITIAL ACCURACY	STEP EFFICIENCY			AVERAGE EFFICIENCY
		MIN.	RATED	MAX.	PEAK		@ 20% LOAD	@ 50% LOAD	@ 100% LOAD	
SNP-HFA7 SNP-HFA7-A SNP-HFA7-H	+12V	0A	8.5A	10A	12.5A	+11.8V~+12.2V	85% 80%	86% 83%	87% 83%	86% 82%
SNP-HFA8 SNP-HFA8-A SNP-HFA8-H	+15V	0A	6.66A	8A	9.4A	+14.8V~+15.2V	85% 77%	86% 83%	87% 83%	86% 81%
SNP-HFA9 SNP-HFA9-A SNP-HFA9-H	+24V	0A	4.17A	5.42A	6.25A	+23.8V~+24.2V	85% 82%	86% 84%	87% 85%	86% 84%
SNP-HFAT SNP-HFAT-A SNP-HFAT-H	+48V	0A	2.1A	2.7A	2.92A	+47.8V~+48.2V	85% 81%	86% 86%	87% 86%	86% 84%

Note:

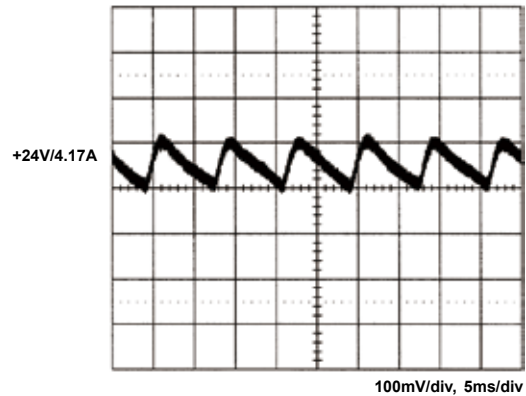
- Standby Power Consumption with System:**
For computers and displays, ENERGY STAR in U.S. and ErP regulation in Europe require the input power should be less than 0.5W at standby mode.
- Output Load:**
100W for convection cooling; 130W for forced air cooling.
- Peak Load Duration:**
Peak 150W can last for 5 sec.
- Isolation Grade:**
Primary ↔ Ground : 1MOPP (1500Vac)
Primary ↔ Secondary : 2MOPP (4000Vac)
Secondary ↔ Ground : 1MOPP (1500Vac)
- Leakage Current:**
Earth leakage current < 300uA
Touch current < 100uA
- EMI Grounding:**
If there is a metal sheet under the power supply, connect the EMI ground to that metal sheet.
- 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-HFAx is for ITE & Medical applications which require standby mode.
SNP-HFAx-A is for ITE & Medical applications but without burst sound and no standby mode.
SNP-HFAx-H is for Home Healthcare application, input class II and EMI class B.
- The safety application will be proceeded upon request.

Performance for SNP-HFA9-A:

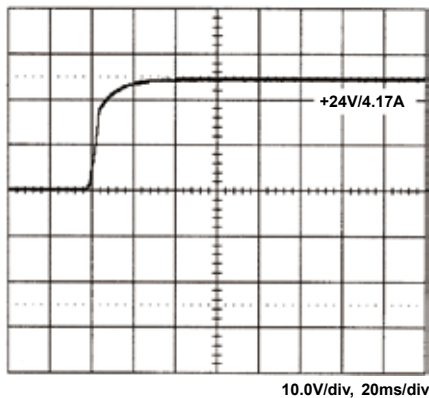
1. Switching frequency ripple



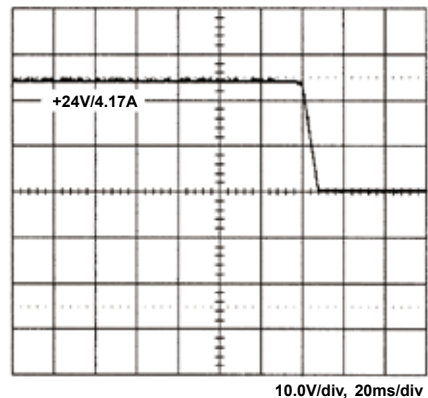
2. Line frequency ripple



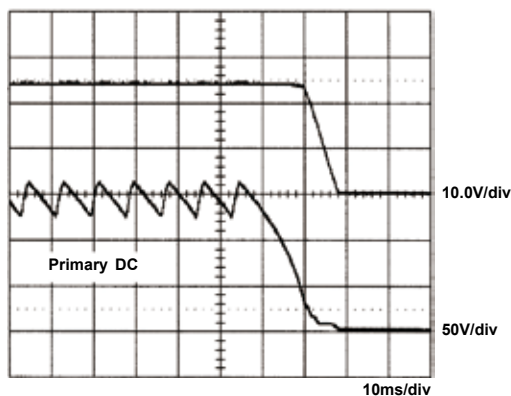
3. Output turn on wave form



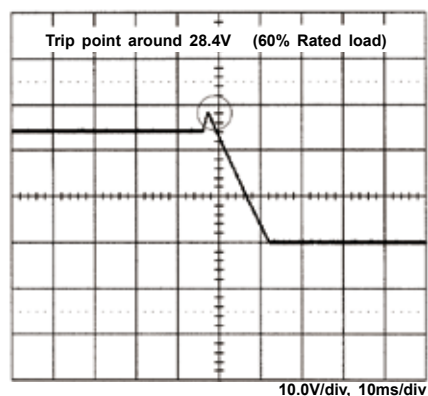
4. Output turn off wave form



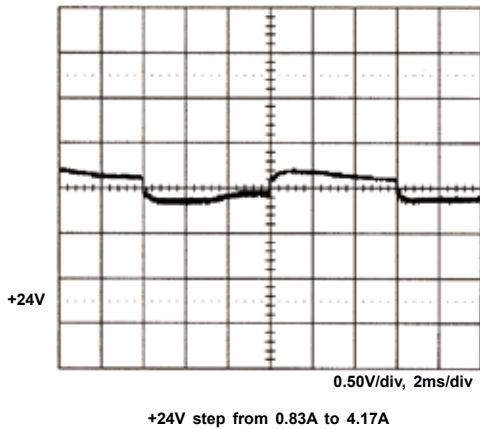
5. Hold-up time



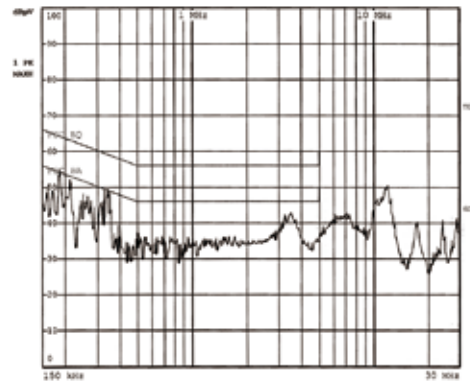
6. Over voltage protection



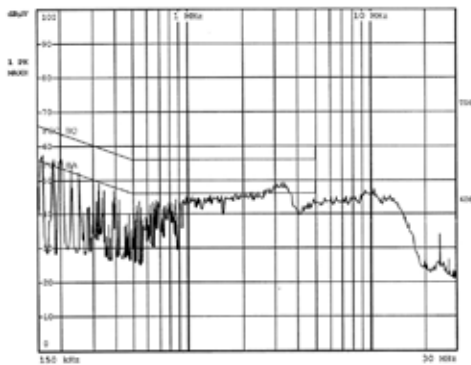
7. +24V step response



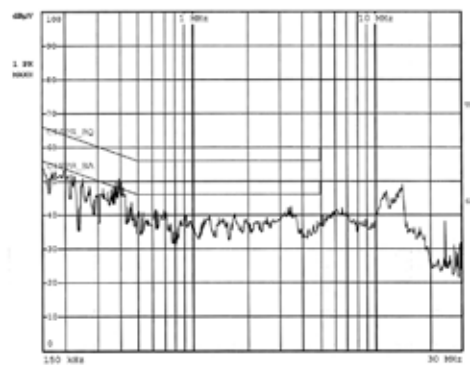
8. FCC B (Class I)



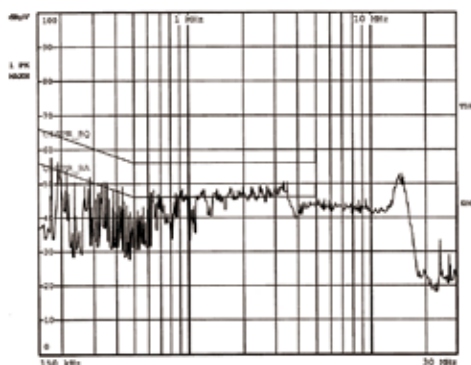
9. FCC B (Class II)



10. EN55011 22 B (Class I)



11. EN55011 22 B (Class II)



12. Power derating curve

