



**2" x 4" x 1.2"**

### Features:

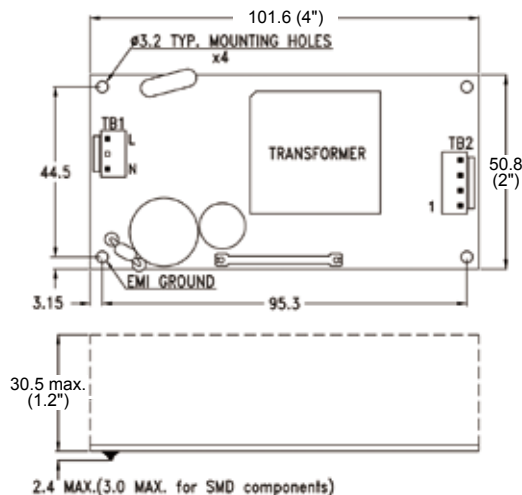
- Design for BF application
- Meet 2 X MOPP and Contact Leakage < 100uA
- Safety Class II & EMI Class B
- Follow ErP Directive of EU
- High mechanical torque start-up
- -40°C to +70°C operating temperature
- 5,000m operation altitude
- Convection cooling for rated load
- Forced air for max. load

### 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, 2<sup>nd</sup> 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 4" x 1.2"
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
Vo	GND
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)

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**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	+12V	0A	7.5A	9.2A	11.7A	+11.8V~+12.2V	85% 80%	86% 83%	87% 83%	86% 82%
SNP-HFA8 SNP-HFA8-A	+15V	0A	6.6A	8A	9.4A	+14.8V~+15.2V	85% 77%	86% 83%	87% 83%	86% 81%
SNP-HFA9 SNP-HFA9-A	+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	+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.