



**3" x 5" x 1.07"**

## General Specifications:

Input voltage ..... 90 VAC to 264 VAC  
Input frequency ..... 47 Hz to 63 Hz  
Green power ..... < 0.5W/1W at no load/5Vsb/0.1A  
Inrush current ..... < 30/60A at 115/230VAC  
Efficiency ..... 89%  
Hold up time ..... 20ms  
Over load/Short circuit protection ..... auto recovery  
Over voltage protection ..... latch off  
Operating temperature ..... -20°C to 70°C  
derating: 2.5% / °C > 50°C

## Features:

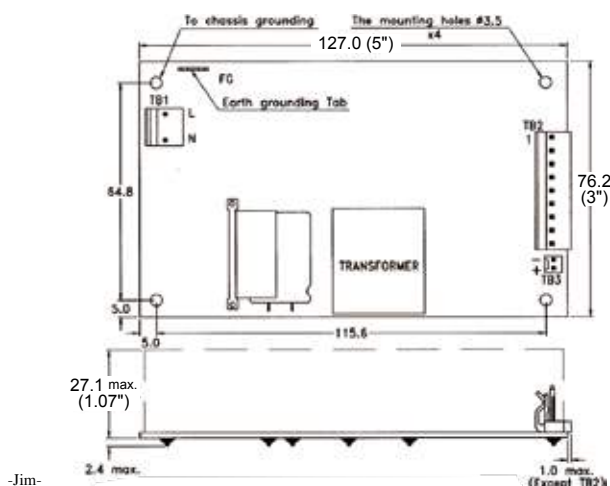
- Peak load (1.5 ~ 2 x rated current, Vo=rated for 5 sec)
- Design for BF application
- Convection cooling for Rated power
- With +5Vsb & +12V Fan output
- Remote on/off & remote sense
- Fan speed controlled by loading
- EMI class B
- -30°C to +70°C operating temperature
- 5,000m operation altitude

## Applications:

- For peak load and surge load applications, such as active speaker and audio power amplifier, motor drive, coffee machine, vending machine, gaming machine, and other industrials.
- For EMI class B application, such as home healthcare device, and other medical devices.

Remote control ..... active low  
Cooling ..... convection cooling  
Storage temperature ..... -40°C to +85°C  
EMI ..... EN55022 "B", EN61000-3-3  
Harmonics..... EN61000-3-2  
EMS..... EN61000-4-2,-3,-4,-5,-6,-8,-11  
Safety ..... UL/CSA/IEC60950-1, 2<sup>nd</sup> edition  
ANSI/AMMI/CSA/IEC60601-1, 3<sup>rd</sup> edition  
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:  
3" x 5" x 1.07"
2. Mounting Hole:  
64.8 x 115.6 (mm)
3. Connectors:  
AC input: Molex 5277-02A or equivalent  
DC output: Molex 5273-09A or equivalent
4. Output Pin assignment:  

1	2	3	4	5	6	7	8	9
+5Vsb	Remote	+5V RTN	Vo	Vo	Vo	RTN	RTN	RTN

TB3:	
1	2
+12V	RTN
5. Packing:  
Net weight: 277 g approx. / unit  
Gross weight: 17.5 kg approx. / carton, 48 units / carton  
Carton size (mm): 397 (L) x 339 (W) x 327 (H)

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

### Output Specifications:

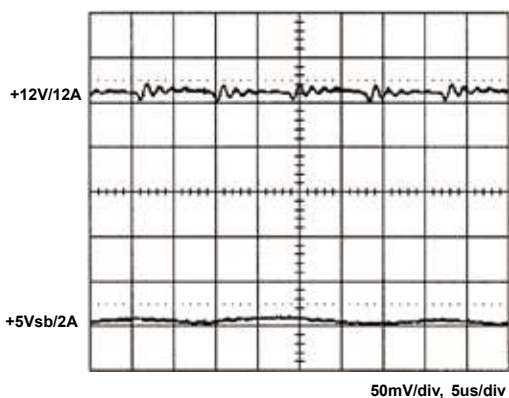
MODEL NO.	OUTPUT RAIL	LOAD				INITIAL ACCURACY	STEP EFFICIENCY			AVG. EFF.	STATUS
		MIN.	RATED	MAX.	PEAK		@ 20% LOAD	@ 50% LOAD	@ 100% LOAD		
SNP-P157 -S	+12V +5Vsb	0A	12A 2A		18A	+11.9V~+12.1V	83%	87%	86%	85%	ready
SNP-P158 -S	+15V +5Vsb	0A	9.6A 2A		14.4A	+14.9V~+15.1V	83%	87%	86%	85%	ready
SNP-P155 -S	+18V +5Vsb	0A	8A 2A		12A	+17.9V~+18.1V	83%	87%	86%	85%	ready
SNP-P159 -S	+24V +5Vsb	0A	6A 2A		9A	+23.9V~+24.1V	83%	87%	86%	85%	ready
SNP-P15G-S	+28V +5Vsb	0A	5.1A 2A		7.7A	+27.9V~+28.1V	83%	87%	86%	85%	ready
SNP-P15J -S	+36V +5Vsb	0A	4A 2A		6A	+35.8V~+36.2V	83%	87%	86%	85%	ready
SNP-P15T-S	+48V +5Vsb	0A	3A 2A		4.5A	+47.8V~+48.2V	83%	87%	86%	85%	ready

### Note:

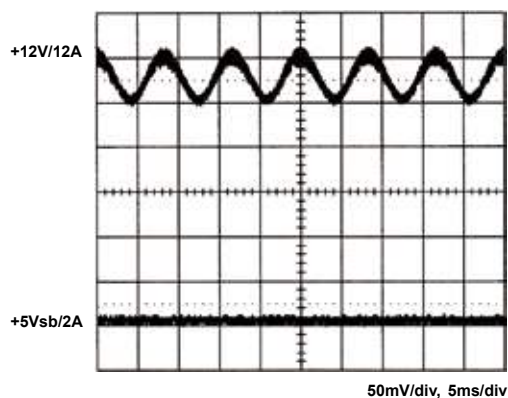
- Standby Power Consumption with System:**  
For computers and displays, ENERGY STAR in U.S. and ErP regulation in Europe require the input power should be less than 0.5W at standby mode.
- Output Load:**  
154W for convection cooling.
- Peak Load Duration:**  
Peak 220W can last for 5 sec.
- Isolation 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-P15x-S is for ITE & medical applications which require standby mode.

## Performance for SNP-P157-S:

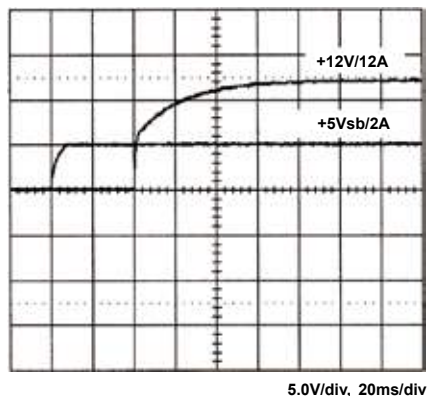
### 1. Switching frequency ripple



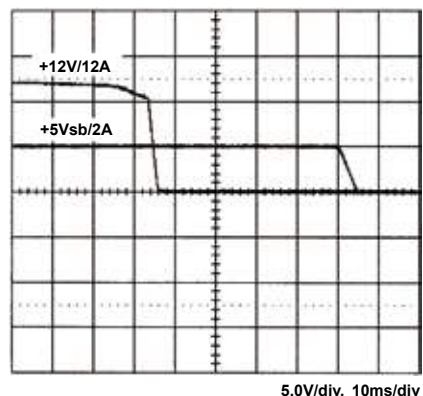
### 2. Line frequency ripple



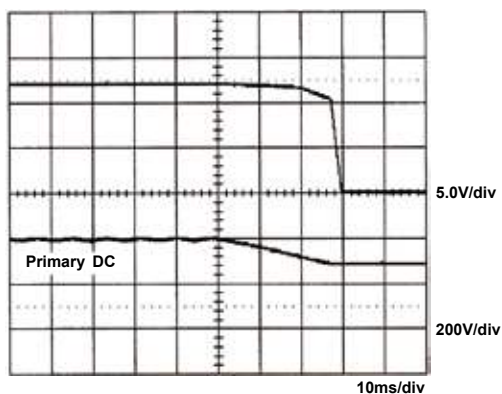
### 3. Output turn on wave form



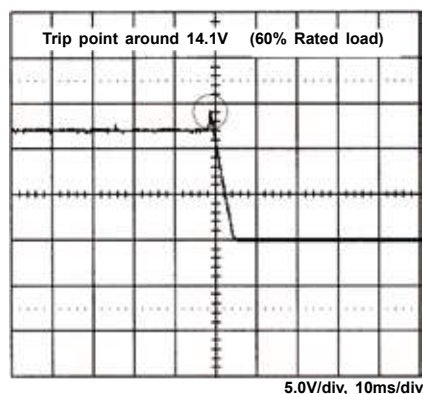
### 4. Output turn off wave form



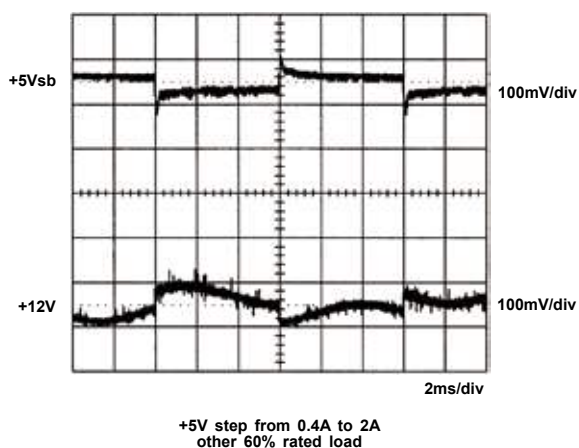
### 5. Hold-up time



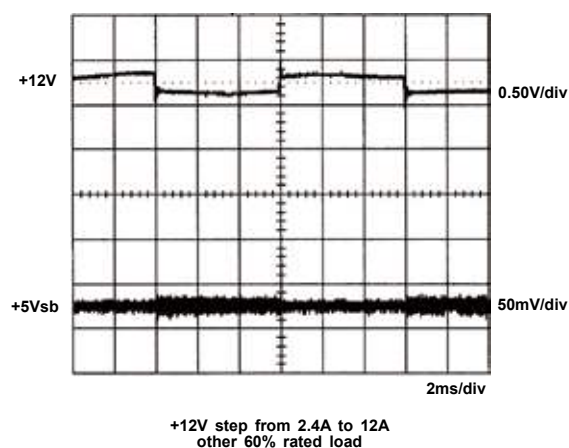
### 6. Over voltage protection



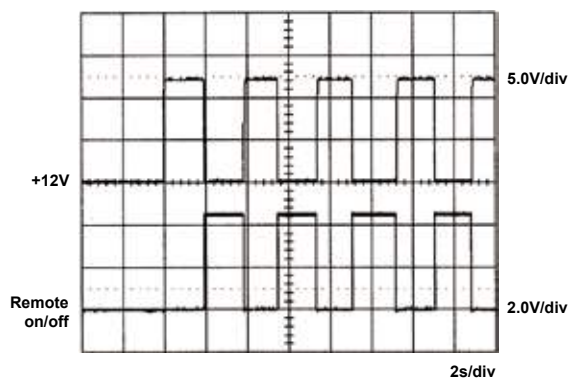
7. +5Vsb step response



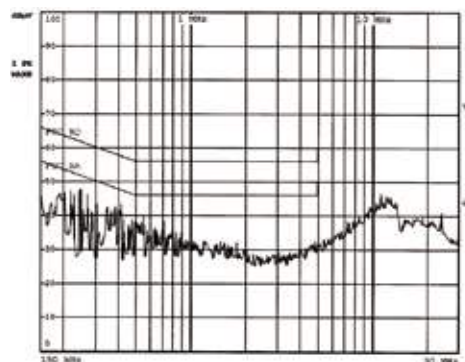
8. +12V step response



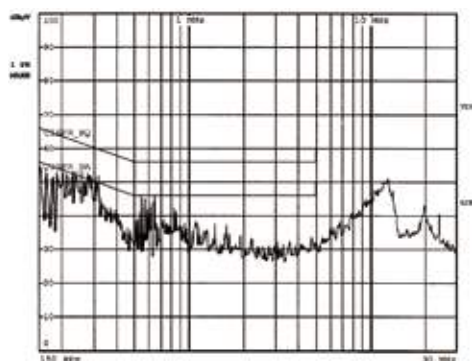
9. Remote on/off



10. FCC B



11. EN55011 B



12. Power derating curve

