THE RELIABLE SOURCE

Medical & ITE
General Purpose

Rated 154W
Max. 185W
Peak 220W
SNP-P15x-S Series

3" x 5" x 1.07"

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:

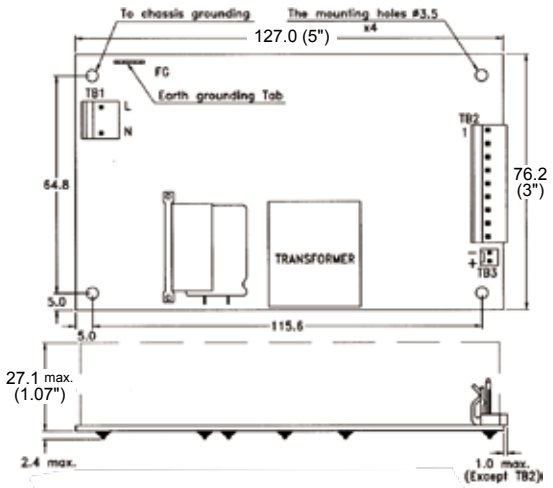
- For peak load and surge load applications, such as active speaker and audio power amplifier, motor drive, coffee machine, vending machine, gaming machine, and other industrials.
- For EMI class B application, such as home healthcare device, and other medical devices.

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

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, 2nd edition
ANSI/AMMI/CSA/IEC60601-1, 3rd 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)

-Jim-

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

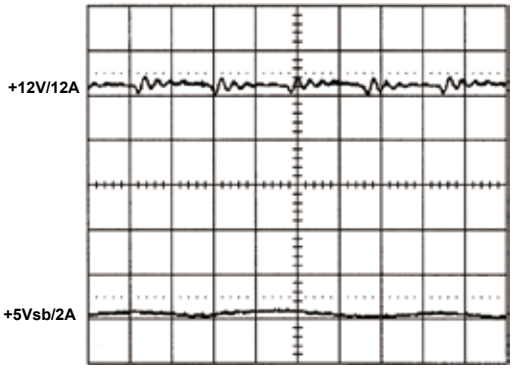
Note:

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:**
   154W for convection cooling.
3. **Peak Load Duration:**
   Peak 220W 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-P15x-S is for ITE & medical applications which require standby mode.

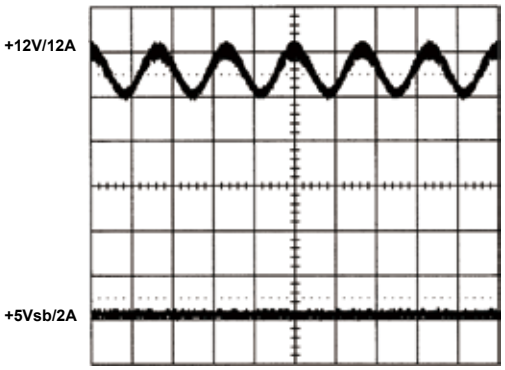
-Jim-

Performance for SNP-P157-S:

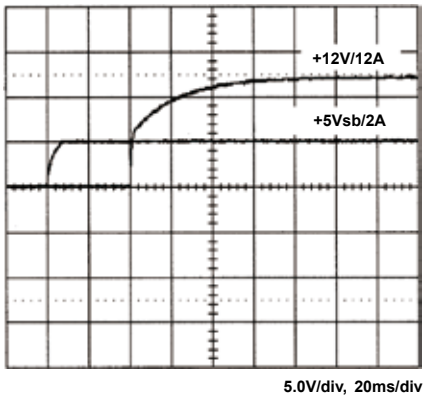
1. Switching frequency ripple



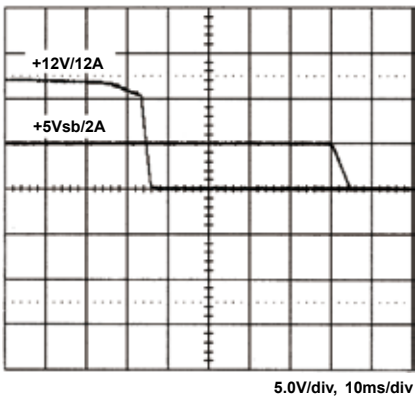
2. Line frequency ripple



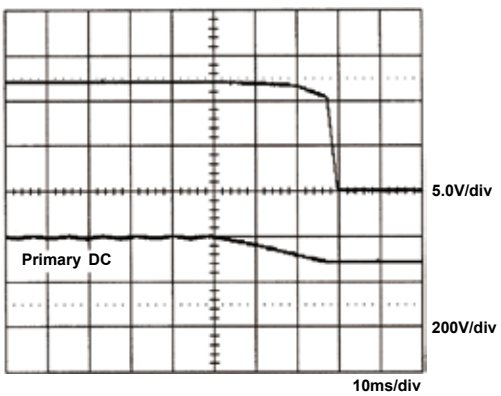
3. Output turn on wave form



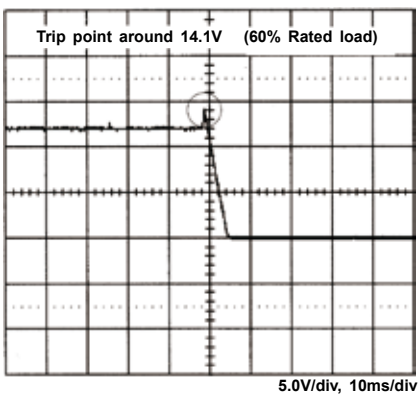
4. Output turn off wave form



5. Hold-up time

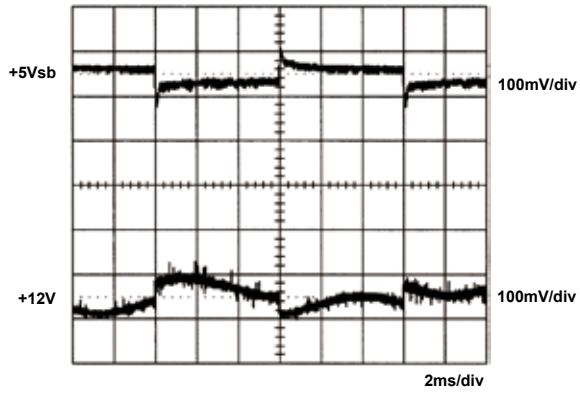


6. Over voltage protection



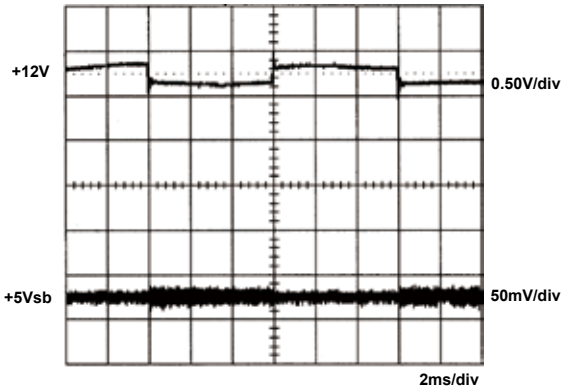
-Jim-

7. +5Vsb step response



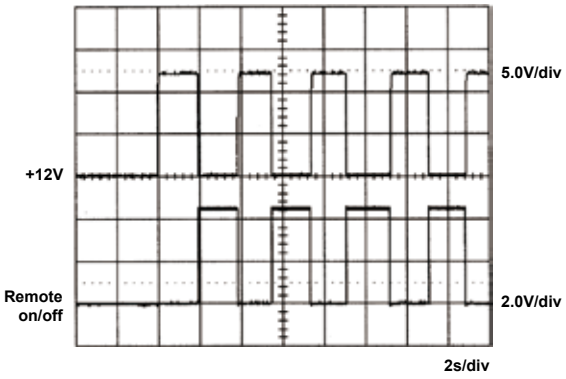
+5V step from 0.4A to 2A
other 60% rated load

8. +12V step response

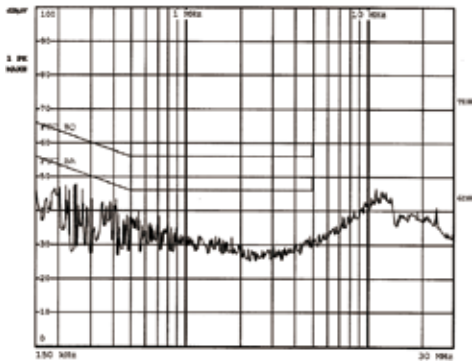


+12V step from 2.4A to 12A
other 60% rated load

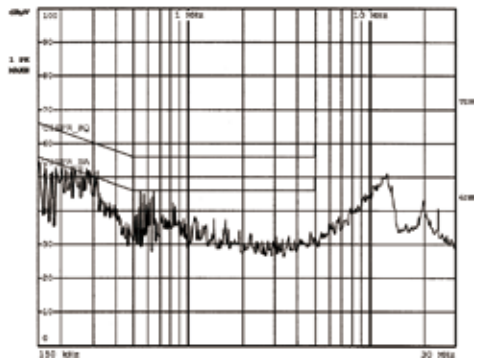
9. Remote on/off



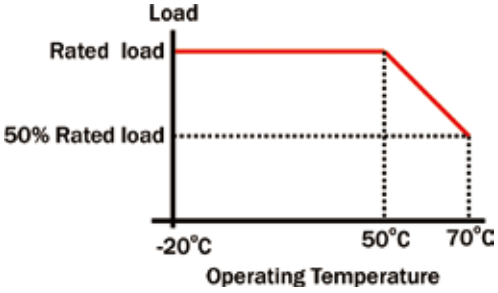
10. FCC B



11. EN55011 B



12. Power derating curve



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