THE RELIABLE SOURCE

Medical & ITE

General Purpose

Rated 120W
Max. 180W
Peak 240W
SNP-V12 Series



2.39" x 4" x 1.26"

Features:

- Peak load (1.6 ~ 2 x rated current, Vo=rated for 5 sec)
- Design for BF application
- Convection cooling for Rated power
- Wide trimmable output voltage
- With Fan output, fan start-up at >30% loading
- EMI class B
- PF > 0.93
- -30°C to +70°C operating temperature
- 5,000m operation altitude

Applications:

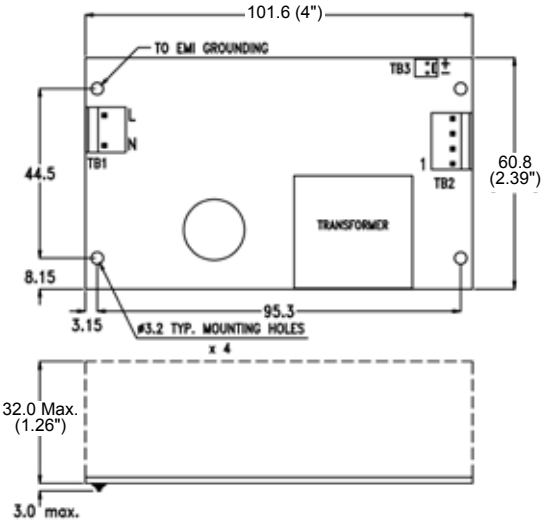
- For peak load and surge load applications, such as motor drive, coffee machine, vending machine, gaming machine, and other industrials.
- For EMI class B application, such as home healthcare device, and other medical devices.

General Specifications:

Input voltage ..... 90 VAC to 264 VAC
Input frequency ..... 47 Hz to 63 Hz
Inrush current ..... < 30/60A at 115/230VAC
Efficiency ..... > 87%
Hold up time ..... > 16ms
Over load/Short circuit protection ..... auto recovery
Over voltage protection ..... latch off
Operating temperature ..... -30°C to 70°C
derating: 2.5% / °C > 50°C for convection cooling
Storage temperature ..... -40°C to +85°C

Cooling ..... 120W free air convection
180W 18 CFM forced
EMI ..... EN55022 "B", FCC "B"
Harmonics ..... EN61000-3-2, class D
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

Mechanical Specifications:



Notes:

1. Size:
   2.39" x 4" x 1.26"
2. Mounting Hole:
   44.5 x 95.3 (mm)
3. Connectors:
   AC input: JST B2P3-VH or equivalent
   DC output: JST B4P-VH or
   Terminal blocks or equivalent
   Fan: Molex 5045-02A or equivalent
4. Output Pin assignment:

1	2	3	4
Vo	Vo	GND	GND

5. Packing:
   Net weight: 190 g approx. / unit
   Gross weight: 14.5 kg approx. / carton, 60 units / carton
   Carton size (mm): 489 (L) x 357 (W) x 285 (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-V127	+12V	0A	10A	15A	20A	+11.9V~+12.1V	> 76%	> 86%	> 87%	83%
SNP-V129	+24V	0A	5A	7.5A	10A	+23.9V~+24.1V	> 73%	> 85%	> 88%	82%

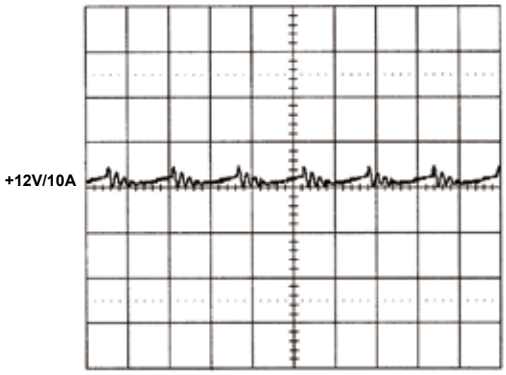
Note:

1. **Output Load:**
   120W for convection cooling; 180W for forced air cooling.
2. **Peak Load Duration:**
   Peak 360W can last for 5 sec.
3. **Isolation Grade:**
   Primary ⟷ Ground : 1MOPP (1500Vac)
   Primary ⟷ Secondary : 2MOPP (4000Vac)
   Secondary ⟷ Ground : 1MOPP (1500Vac)
4. **Leakage Current:**
   Earth leakage current < 300uA
   Touch current < 100uA
5. **EMI Grounding:**
   The EMI grounding holes should be connected to chassis ground.

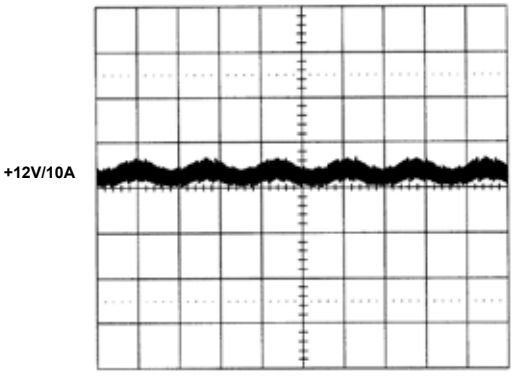
-Jim-

Performance for SNP-V127 (input voltage is 115VAC, unless others specified):

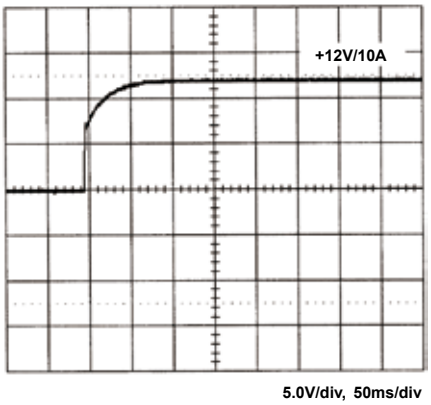
1. Switching frequency ripple



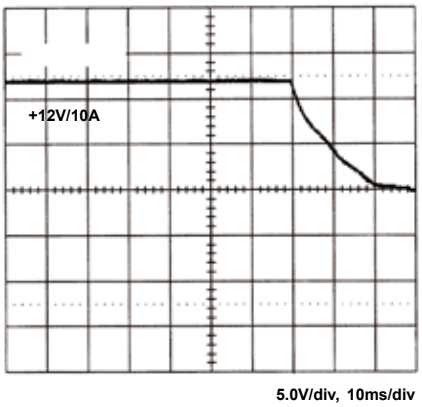
2. Line frequency ripple



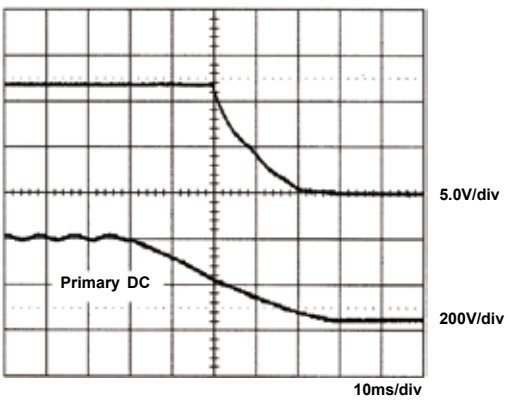
3. Output turn on wave form



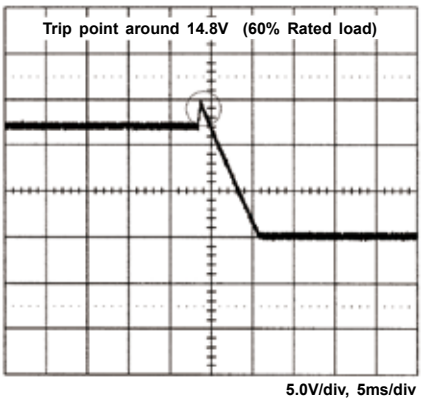
4. Output turn off wave form



5. Hold-up time

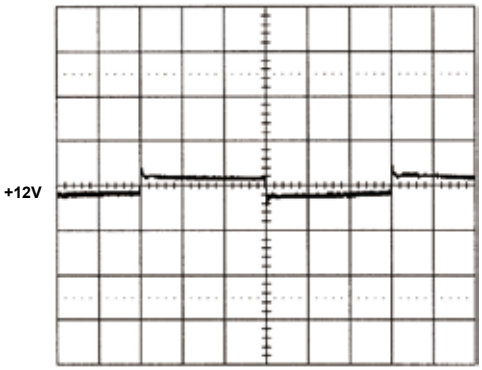


6. Over voltage protection

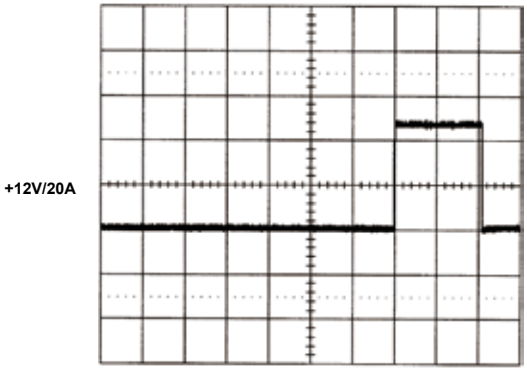


-Jim-

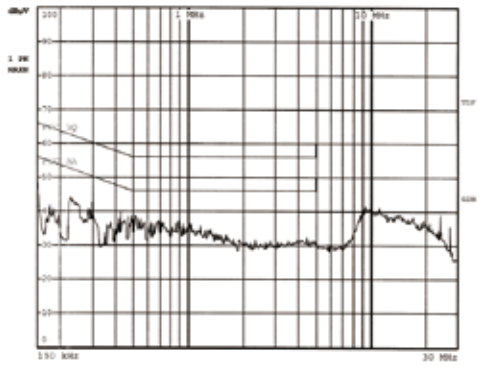
7. +12V step response



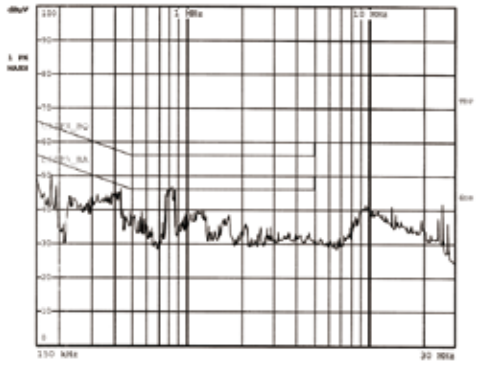
8. Peak load



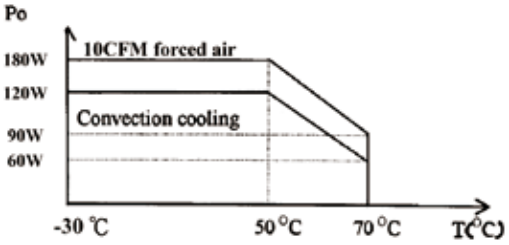
9. FCC B



10. EN55011 22 B



11. Power derating curve



-Jim-