Skynet®
THE RELIABLE SOURCE

Switching Adapter (Universal)

PFC + 120W
SNP-A12 Series
SNP-A12X-M Series

Description:

It will be a big challenge to engineers if boost active PFC plus 120W output universal power adapter is going to be designed into a 95.0mm X 180.0mm X 50.0mm box. Increasing overall efficiency and the special care of heat dissipate make SNP-A12 series reaching this impossible mission. Furthermore, this series was designed with patented Ring-Free ZVS & Active PFC. SNP-A12X-M series is for medical application.

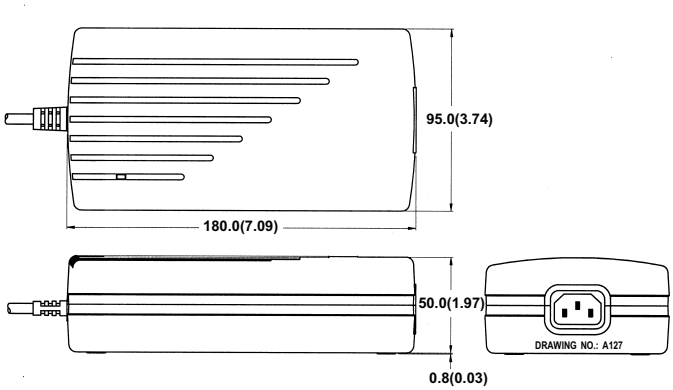
Model available:

- SNP-A127 for 12V/9A
- SNP-A128 for 15V/7.5A
- SNP-A125 for 18V/6.5A
- SNP-A129 for 24V/5A
- SNP-A12T for 48V/2.5A
- SNP-A127-M for 12V/9A
- SNP-A128-M for 15V/7.5A
- SNP-A125-M for 18V/6.5A
- SNP-A129-M for 24V/5A
- SNP-A12T-M for 48V/2.5A

General Specifications:

Input voltage ..... 90 VAC to 264 VAC
Input frequency ..... 47 Hz to 63 Hz
Inrush current ..... less than 60A at 230VAC cold start, 25°C
Efficiency .....84%~87% depends on models
Holdup time..... > 16 ms at rated load and 115VAC
Over voltage protection ..... latch off
Short circuit protection..... auto recovery
Over load protection ..... auto recovery
Operating temperature ..... 0°C to 40°C
Cooling ..... free air convection
Storage temperature ..... -20°C to +85°C
EMI .....FCC class "B" CISPR22 level "B"
Harmonics ..... EN61000-3-2 class D
EMS .....EN61000-4-2, -3, -4, -5,-6,-11
Safety ..... UL 60950, (UL 60601-1) CSA C22.2 No. 60950, (CSA 601-1, CUL) TUV EN60950-1, (EN60601-1)

Mechanical Specifications:



Notes:

1. Dimensions shown in mm (inch) as left. Tolerance: ±1mm (Excluding cables).
2. Size: 95.0 X 180.0 X 50.0 (mm)
4. Packing
   Net weight: 920 g approx. / unit
   Gross weight: 16 kg approx. / carton, 14 units / carton
   Carton size (mm): 531 (L) x 316 (W) x 337 (H)
4. Connectors:
   AC input : IEC 320 Inlet
   DC output : Molex 5557-06 or equivalent
5. Box Color : Black

-Steven-

Output Specifications:

MODEL NO.	OUTPUT RAIL	LOAD			VOLTAGE ACCURACY	RIPPLE NOISE	LINE REG.	LOAD REG.
		MIN.	RATED	PEAK				
SNP-A127(-M)	+12V	0A	9A	15A	+11.40V~+12.60V	100mVpp	±1%	±3%
SNP-A128(-M)	+15V	0A	7.5A	10A	+14.25V~+15.75V	100mVpp	±1%	±3%
SNP-A125(-M)	+18V	0A	6.5A	9A	+17.1V~+18.9V	100mVpp	±1%	±3%
SNP-A129(-M)	+24V	0A	5A	7A	+22.80V~+25.20V	100mVpp	±1%	±3%
SNP-A12T(-M)	+48V	0A	2.5A	4A	+45.60V~+50.40V	100mVpp	±1%	±3%

Note:

1. Output can provide up to peak load when the power supply starts up. Continuous staying in more than rated load is not allowed.
2. At factory, in 60% rated load condition, each output is checked to be within voltage accuracy.
3. Line regulation is defined by changing ±10% of input voltage from nominal line at rated load.
4. Load regulation is defined by changing ±40% of measured output load from 60% rated load.
5. Ripple & noise is measured by using 15MHz bandwidth limited oscilloscope and terminated each output with a 0.47uF capacitor at rated load and nominal line.
6. Hold up time is measured from the end of the last charging pulse to the time which the main output drops down to low limit of main output at rated load and nominal line.
7. Efficiency is measured at rated load, and nominal line.

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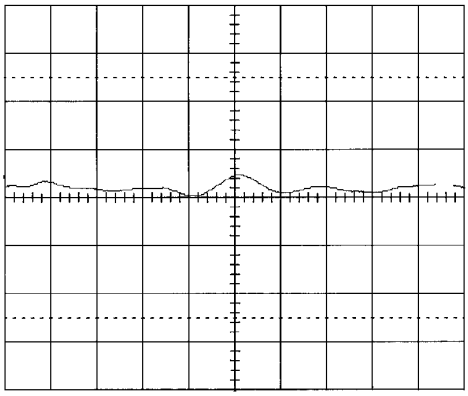
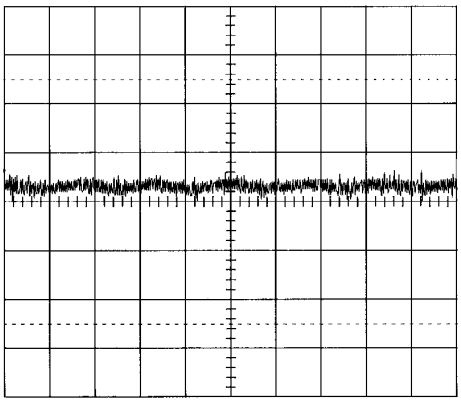
Performance for SNP-A127:

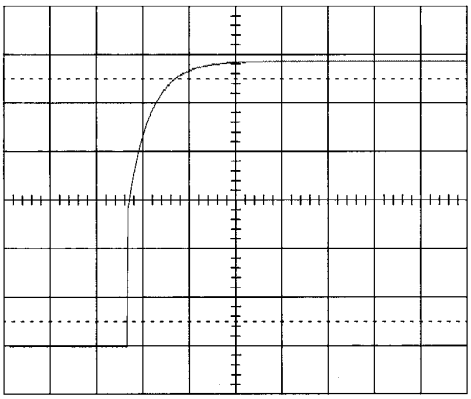
1. Switching frequency ripple



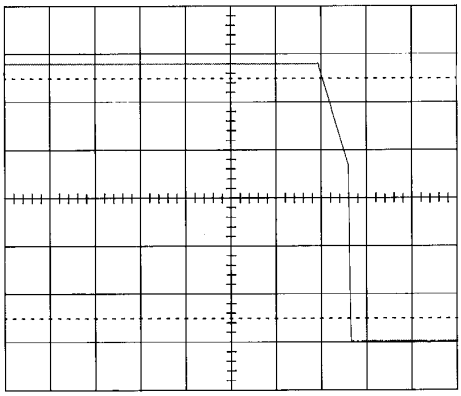
2. Line frequency ripple



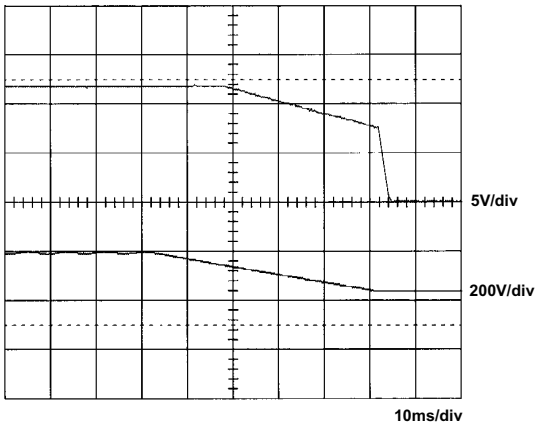
3. Output turn on wave form



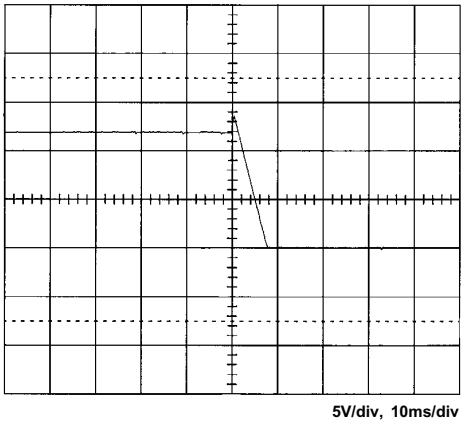
4. Output turn off wave form



5. Hold-up time



6. Over voltage protection



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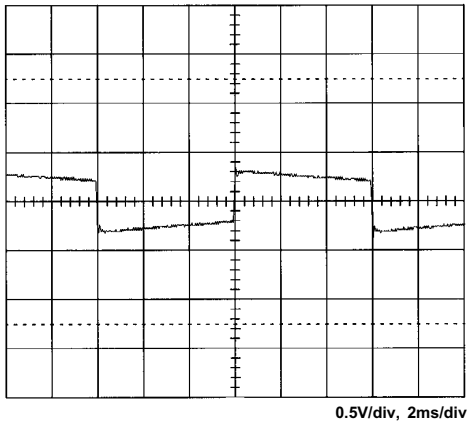
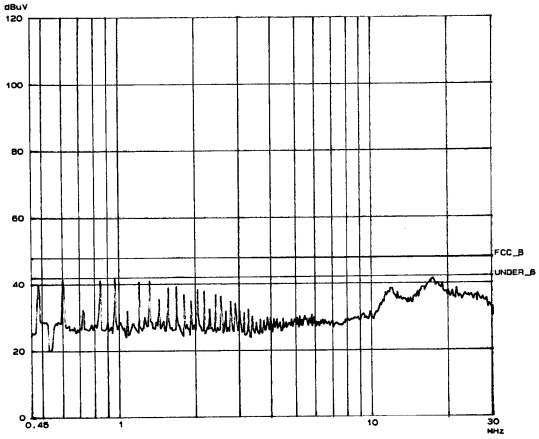
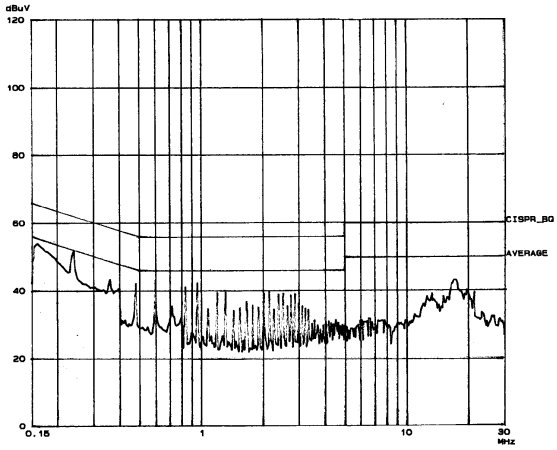
7. +12V step response



8. FCC B



9. CISPR 22 B



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