General Purpose

3" x 5" x 1.319"

Features:

- Meet Energy Star Version 2.0
- With built-in active PFC
- Only 1.36 inch height
- 5.8 Watt per cubic inch
- With ITE & Medical safety
- Efficiency between 85% to 90%
- Operation from -20°C to 70°C by convection

Applications:

- For medical device such as monitor.
- For power saving required system such as LCD monitor.

General Specifications:

Input voltage .... 90 VAC to 264 VAC
Input frequency .... 47 Hz to 63 Hz
Inrush current .... < 30A at 115VAC
(cold start at 25°C)   or < 60A at 230VAC
Efficiency .... 87% typical
Hold up time .... 20ms typical
                                        at rated load and 115VAC
Average efficiency .... > 87% at 25%, 50%, 75%, 100%
                    of rated load and 115VAC/230VAC input
No-load input power .... < 0.5W
Energy saving .... energy star Ver. 2.0
Over load protection .... auto recovery
Short circuit protection.................................... auto recovery

Over voltage protection .... latch off
Max. capacitive load 30000uF
Remote Sense .... compensates for 0.5V load drop min.
Operating temperature (open frame type) .... -20°C to 70°C
                                        derating: 2.5% / °C > 40°C
Cooling .... free air convection for 120W
                    with 18CFM forced air flow for 130W
Storage temperature .... -20°C to +85°C
EMI .... EN55022 "B", FCC "B"
Harmonics EN61000-3-2
EMS EN61000-4-2,-3,-4,-5,-6,-11
Safety .... UL60950-1 : (cULus)
                    EN 60950-1 : 2006 +A11 (TUV)
                    ANSI/AAMI ES60601-1 : 2005 (cULus)
                    EN 60601-1 : 2006 (TUV)

Mechanical Specifications:

SNP-X127
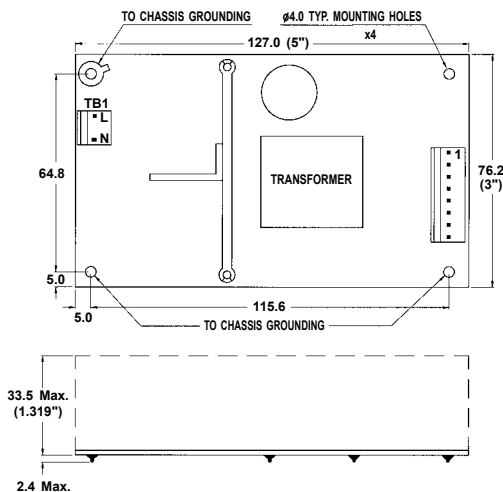
Notes:

1. Size:
   3" x 5" x 1.319"
2. Mounting Hole:
   64.8 x 115.6 (mm)
3. Connectors:
   AC input : Molex 5277-02A or equivalent
   DC output : Molex 5273 or equivalent
   Remote Sense : Molex 5045-02A or equivalent
4. Output Pin assignment:

1	2	3	4	5	6	7	8
Vo	Vo	Vo	Vo	GND	GND	GND	GND

5. Packing:
   Net weight: 290 g approx. / unit
   Gross weight: 13.0 kg approx. / carton, 36 units / carton
   Carton size (mm): 339 (L) x 339 (W) x 327 (H)

-Steven-

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

General Purpose
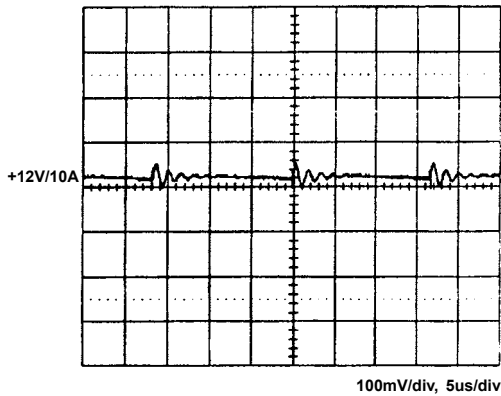
Skynet ®
THE RELIABLE SOURCE

Output Specifications:

MODEL NO.	OUTPUT RAIL	LOAD				VOLTAGE ACCURACY	RIPPLE NOISE	LINE REG.	LOAD REG.
		MIN.	RATED	MAX.	PEAK				
SNP-X127	+12V	0A	10A	11A	13A	+11.9V~+12.1V	120mVpp	±0.5%	±1%
SNP-X128	+15V	0A	8A	8.8A	9.6A	+14.25V~+15.25V	120mVpp	±0.5%	±1%
SNP-X125	+18V	0A	6.7A	7.4A	8A	+17.1V~+18.9V	100mVpp	±0.5%	±1%
SNP-X129	+24V	0A	5A	5.5A	6.5A	+23.8V~+24.2V	200mVpp	±0.5%	±1%
SNP-X12T	+48V	0A	2.5A	2.75A	3A	+47.5V~+50.4V	200mVpp	±0.5%	±1%
SNP-X12H	+60V	0A	2A	2.2A	2.4A	+57V~+63 V	150mVpp	±0.5%	±1%

Note:

1. The total output current is rated load with free air convection and max. load with 18CFM of forced air flow over the unit.
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 at another output set to 60% rated load.
5. Ripple & noise is measured by using 15MHz bandwidth limited oscilloscope and terminated each output with a 0.47uF capacitor and a 47uF electrolytic 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.
8. Model Selection:
    SNP-X12x is for both of ITE applicationand for medical application.

-Steven-

General Purpose

Performance for SNP-X127 (input voltage is 115VAC, unless others specified):
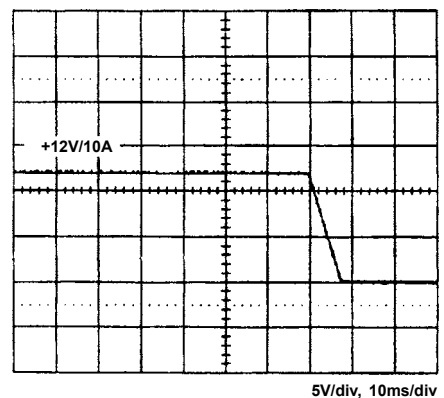
1. Switching frequency ripple

+12V/10A

100mV/div, 5us/div

2. Line frequency ripple

+12V/10A

100mV/div, 5ms/div
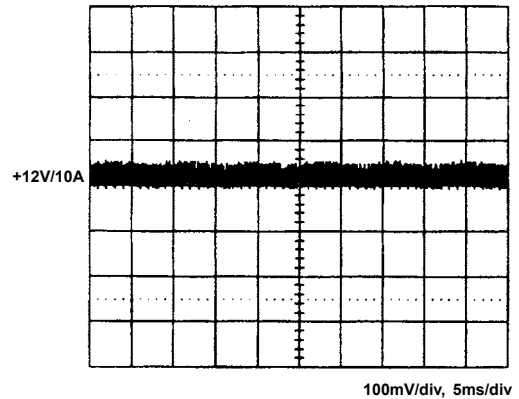
3. Output turn on wave form

+12V/10A

5V/div, 50ms/div
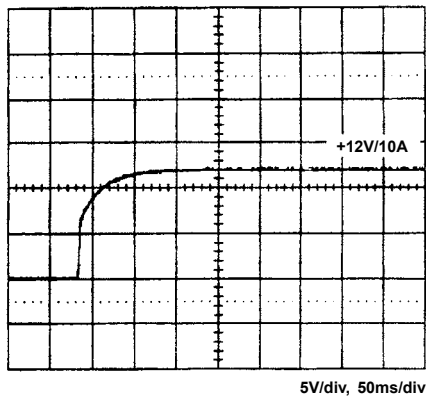
4. Output turn off wave form

+12V/10A

5V/div, 10ms/div

5. Hold up time

5V/div

Primary DC

100V/div

10ms/div

6. Over voltage protection

Trip point around 14.4V   (60% Rated Load)

5V/div, 10ms/div

-Steven-

General Purpose

7. +12V step response

200mV/div, 2ms/div
+12V step from 2A to 10A
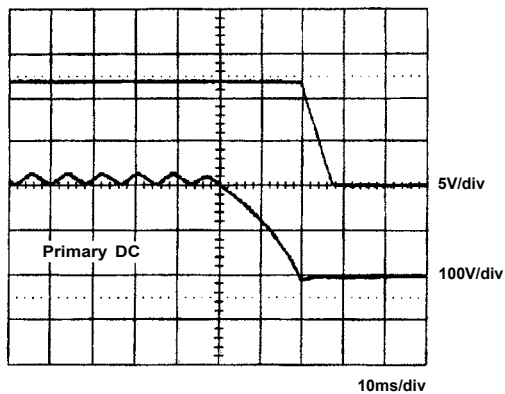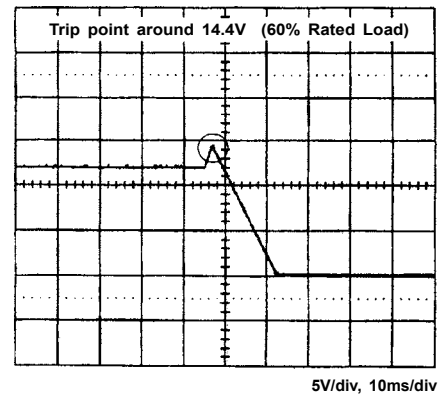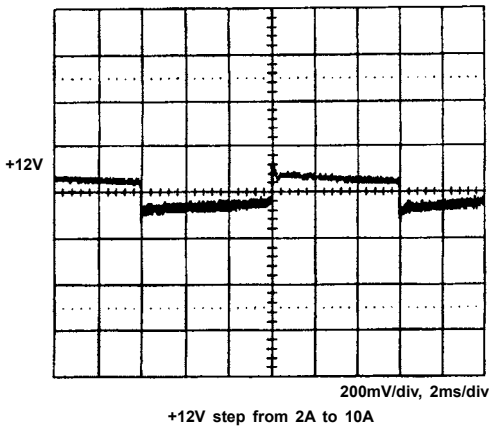
8. FCC B
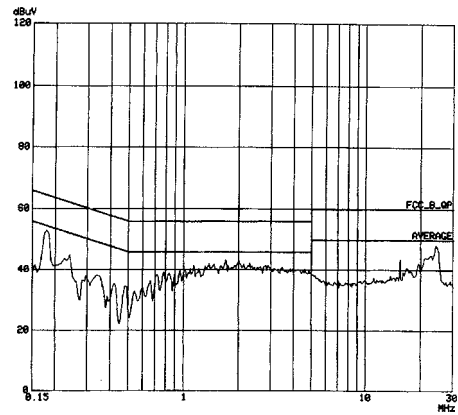
9. EN 55022 B

10. Power derating curve

-Steven-

** This data sheet is only for models selection. For business, engineering specification by model must be used.   JUL. 2014