58 x 120 x 42 (mm)

Features:

- IEC320 C6 or C8 Input Socket
- With Medical safety
- Compatible to Class I / II safety & EMC
- No load input power < 0.3W
- Energy Saving CEC level IV compliant

Applications:

- For medical device.
- For peak power required system.

General Specifications:

Input voltage .... 85 VAC to 264 VAC
Input frequency .... 47 Hz to 63 Hz
Inrush current (cold start at 25°C) .... < 60A at 230VAC
Meet green mode .... < 0.3W (at no load)
Energy saving .... CEC efficiency level IV
Efficiency .... 75%~85% depends on models
Holdup time .... 16 ms typical
at rated load and 115VAC
Over voltage protection .... latch off
Short circuit protection .... auto recovery

Over load protection .... auto recovery
Operating temperature .... -20°C to 60°C
above 40°C, derate at 2.5% per degree
Cooling .... free air convection
Storage temperature .... -20°C to +85°C
EMI .... FCC class "B"
CISPR22 level "B"
EMS .... EN61000-4-2, -3, -4, -5,-6,-11
Safety .... UL 60601-1
CSA 22.2 No. 60601.1
EN60601-1

Mechanical Specifications:

120.0 (4.73")

58.0 (2.29")

C6

or

C8

42.0 (1.66")

Inlet
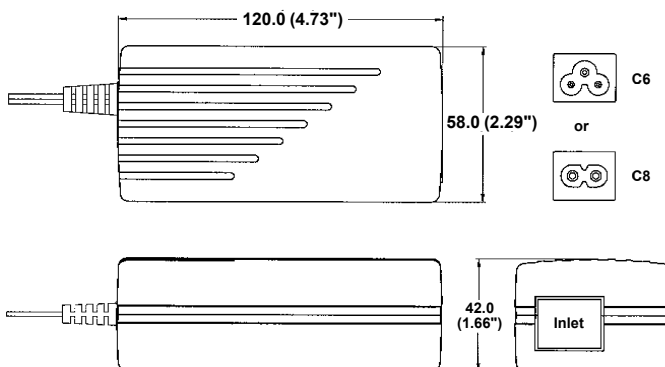
Notes:
1. Size:
    58 x 120 x 42 (mm)
2. Connectors:
    AC input :
    IEC 320 C8: SNP-A04x-M
    C6: SNP-A04x-M3 (* x: 7/8/9)
    DC output :
    Power Jack, OD=5.5mm, ID=2.1mm (SNP-A04x-M)
    T type, 1.98mm Dia. x 3 socket pins (SNP-A04x-M3)

ø2.1 Female socket
ø5.5   9.2 max.
11.0±0.5

DC OUTPUT POLARITY
⊖ — ⊙ — ⊕

3. Box Color : Black
4. Packing:
    Net weight: 300 g approx. / unit
    Gross weight: 16.5 kg approx. / carton, 48 units / carton
    Carton size (mm): 549 (L) x 490 (W) x 241 (H)

-Jim-

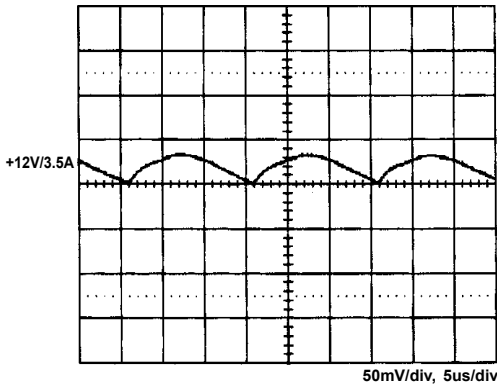*10 years Warranty (contact Skynet's Distributors for details)*

Skynet

THE RELIABLE SOURCE

Output Specifications:

MODEL NO.	OUTPUT RAIL	LOAD				VOLTAGE ACCURACY	RIPPLE NOISE	LINE REG.	LOAD REG.	EFFICIENCY TYPICAL
		MIN.	RATED	MAX.	PEAK					
SNP-A047-M SNP-A047-M3	+12V	0A	3.5A		5.6A	+11.40V~+12.60V	100mVpp	±1%	±2%	83%
SNP-A048-M SNP-A048-M3	+15V	0A	2.8A		4.5A	+14.25V~+15.75V	100mVpp	±1%	±2%	85%
SNP-A049-M SNP-A049-M3	+24V	0A	1.9A		2.9A	+22.80V~+25.20V	200mVpp	±1%	±1%	86%

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.

8. Model Selection:

    SNP-A04x-M is for Class II, Medical application.

    SNP-A04x-M3 is for Class I, Medical application.
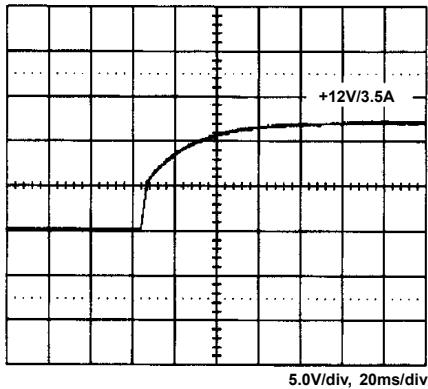
-Jim-
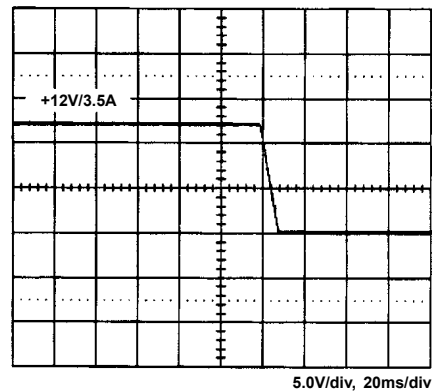
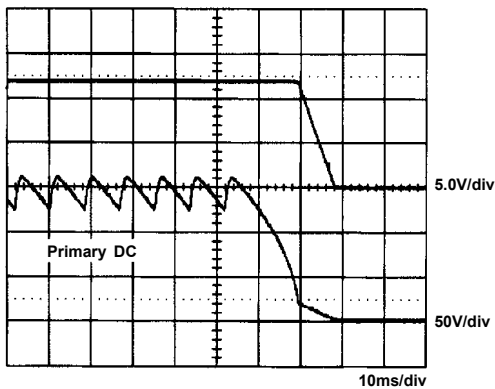## Performance for SNP-A047-M:

1. Switching frequency ripple

+12V/3.5A

50mV/div, 5us/div

2. Line frequency ripple

+12V/3.5A

50mV/div, 5ms/div
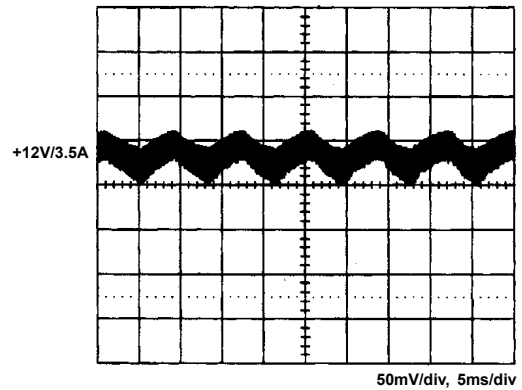
3. Output turn on wave form

+12V/3.5A

5.0V/div, 20ms/div

4. Output turn off wave form

+12V/3.5A

5.0V/div, 20ms/div

5. Hold-up time

5.0V/div

Primary DC

50V/div

10ms/div

6. Over voltage protection

Trip point around 14.3V

(60% rated load)

5.0V/div, 10ms/div

-Jim-

7. +12V step response

1.00V/div, 2ms/div
+12V step from 0.7A to 3.5A
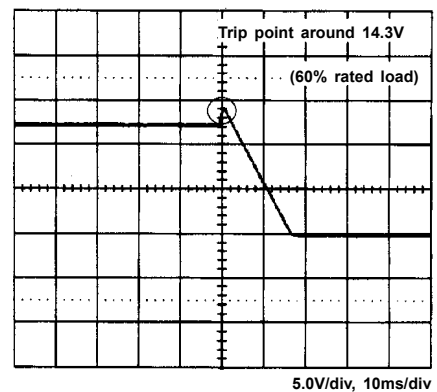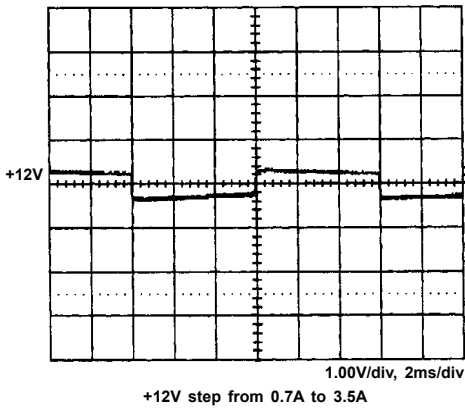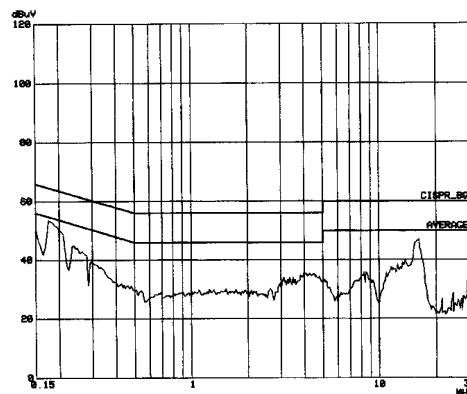
8. Peak Load
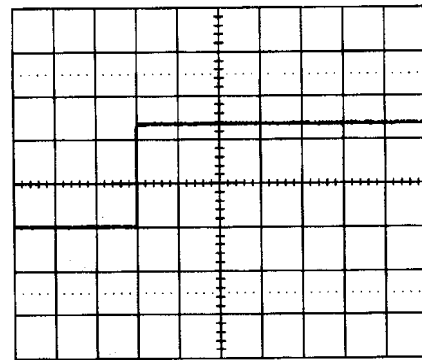
9. FCC B
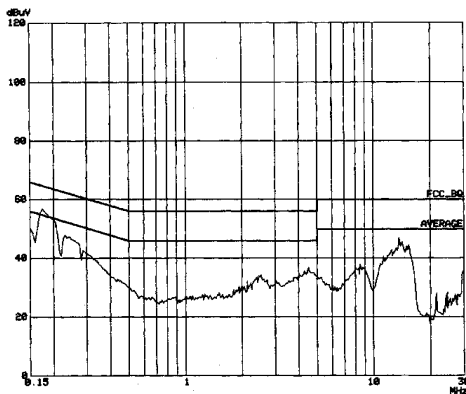
10. EN 55022 B

11. Power derating curve

-Jim-

** This data sheet is only for models selection. For business, engineering specification by model must be used.   NOV. 2016