Medical Adapter

Rated 20W
SNP-A02x-M Series



52 x 96 x 32.5 (mm)

Features:

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

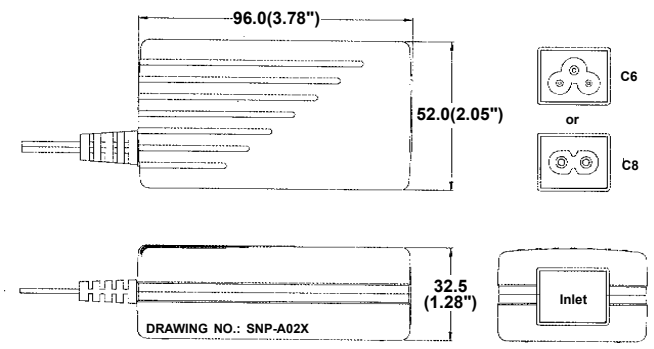
Applications:

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

General Specifications:

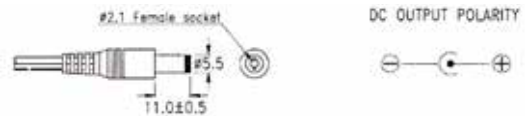
Input voltage ..... 85 VAC to 264 VAC
Input frequency ..... 47 Hz to 63 Hz
Inrush current (cold start at 25°C) .....< 60A at 230VAC
Meet green mode .....< 0.3W (at no load)
Energy saving ..... CEC efficiency level IV
Efficiency ..... 71%~82% depends on models
Holdup time.....16 ms typical
at rated load 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
CSA22.2 No. 60601.1, EN60601-1

Mechanical Specifications:



Notes:

1. Size:
   52 x 96 x 32.5 (mm)
2. Connectors:
   AC input :
   IEC 320 C8: SNP-A02x-M
   C6: SNP-A02x-M3 (* x: 6/7/8/9)
   DC output :
   Power Jack, OD=5.5mm, ID=2.1mm (SNP-A02x-M);
   T TYPE, 1.98mm Dia. x 3 socket pins (SNP-A02x-M3)



3. Box Color : Black
4. Packing:
   Net weight: 170 g approx. / unit
   Gross weight: 17.5 kg approx. / carton, 90 units / carton
   Carton size (mm): 535 (L) x 489 (W) x 314 (H)

-Jim-

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

Output Specifications:

MODEL NO.	OUTPUT RAIL	LOAD				VOLTAGE ACCURACY	RIPPLE NOISE	LINE REG.	LOAD REG.	EFFICIENCY TYPICAL
		MIN.	RATED	MAX.	PEAK					
SNP-A026-M SNP-A026-M3	+5V	0A	2.2A		3.8A	+4.75V~+5.25V	50mVpp	±1%	±4%	71%
SNP-A027-M SNP-A027-M3	+12V	0A	1.3A		2A	+11.40V~+12.60V	80mVpp	±1%	±2%	78%
SNP-A028-M SNP-A028-M3	+15V	0A	1A		1.6A	+14.25V~+15.75V	80mVpp	±1%	±1%	82%
SNP-A029-M SNP-A029-M3	+24V	0A	0.7A		1A	+22.80V~+25.20V	80mVpp	±1%	±1%	82%

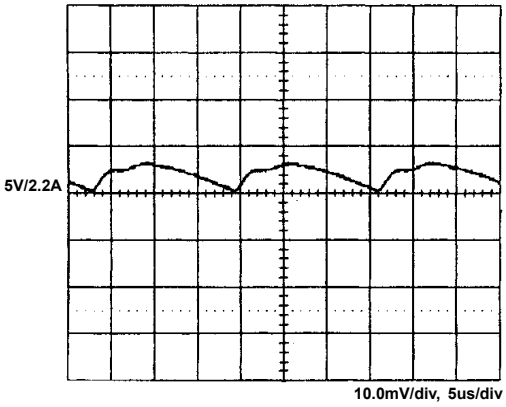
Note:

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-A02x-M is for Class II, Medical application.
   SNP-A02x-M3 is for Class I, Medical application.

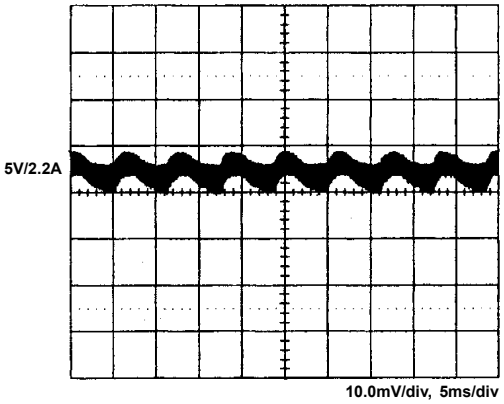
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Performance for SNP-A026-M:

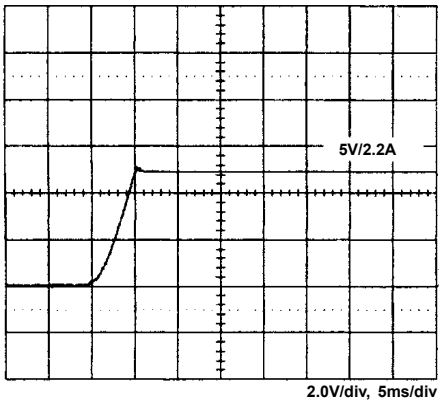
1. Switching frequency ripple



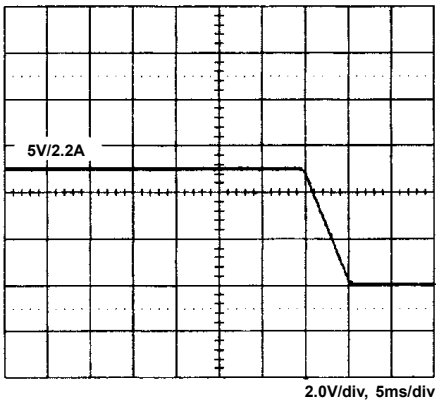
2. Line frequency ripple



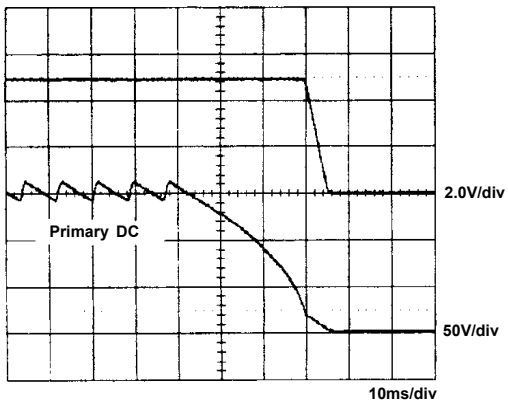
3. Output turn on wave form



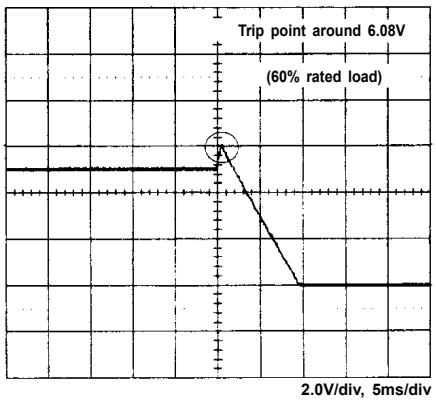
4. Output turn off wave form



5. Hold-up time

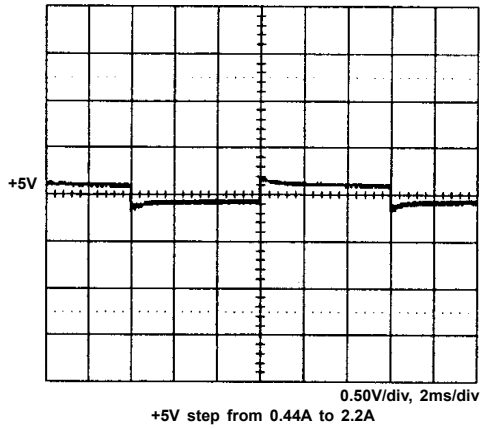


6. Over voltage protection

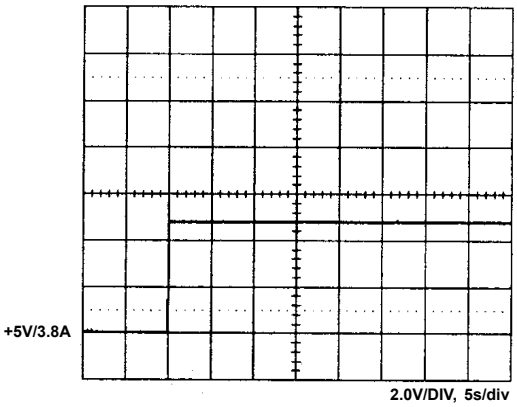


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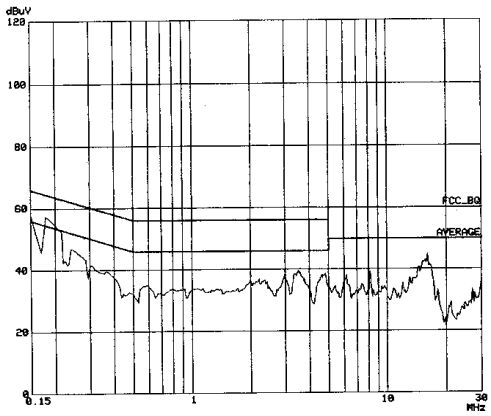
7. +5V step response



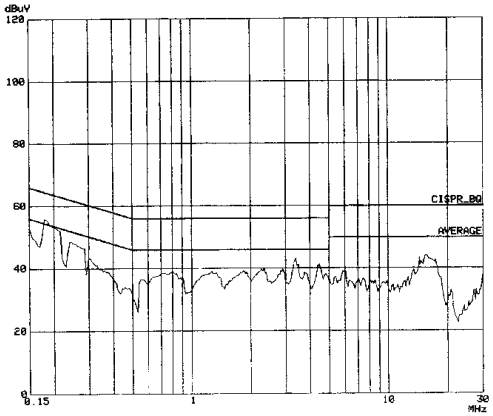
8. Peak Load



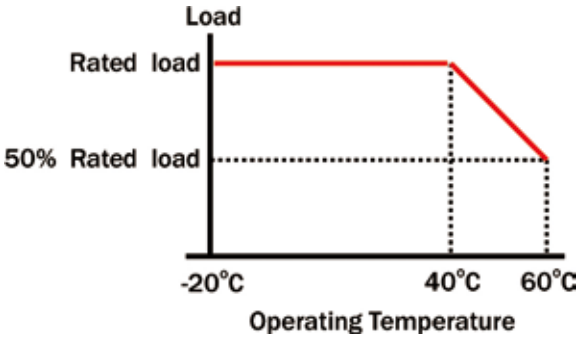
9. FCC B



10. EN55022 B



11. Power derating curve



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