

Medical Adapter (Universal)



Description:

SNP-A04X-M series is a 42~45 watt, universal input, and single output switching mode desk top adapter, which is built in a compact plastic box. The average efficiency is higher than 83%, and input power is less than 0.3 watt at no load condition. Therefore this series meets energy saving regulation.

Short circuit protection...... auto recovery Over load protection auto recovery Operating temperature-20°C to 60°C

EMSEN61000-4-2, -3, -4, -5,-6,-11 SafetyUL 2601

above 40°C, derate at 2.5% per degree

CISPR22 level "B"

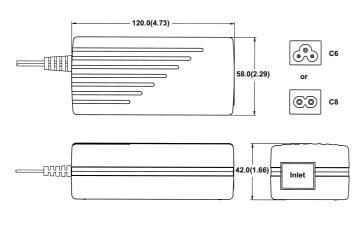
CSA 22.2 No. 601.1

EN60601-1

General Specifications:

Input voltage	
Input frequency	
Inrush current	less than 60A at 230VAC
	cold start, 25°C
Meet green mode	
Energy saving	CEC efficiency level IV
Efficiency	75%~85% depends on models
Holdup time	
	at rated load and 115VAC
Over voltage protection	latch off

Mechanical Specifications:



- Notes: 1. Dimensions shown in mm (inch) as left. Tolerance: ±1mm (Excluding cables).
- 2. Size:
- 58.0 X 120.0 X 42.0 (mm) 2.29 X 4.73 X 1.66 (inch)
- 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)
 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) 5. Box Color : Black



Output Specifications:

MODEL NO.	OUTPUT RAIL	MIN.	LOAD RATED	PEAK	VOLTAGE ACCURACY	RIPPLE NOISE	LINE REG.	LOAD REG.	EFFICIENCY
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%

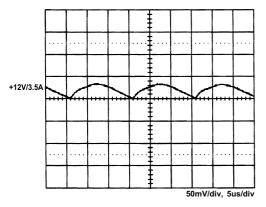
Note:

- 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 $\pm 10\%$ of input voltage from nominal line at rated load.
- 4. Load regulation is defined by changing $\pm 40\%$ 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.

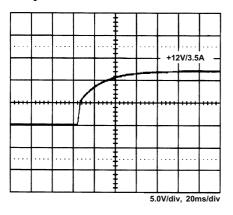


Performance for SNP-A047-M:

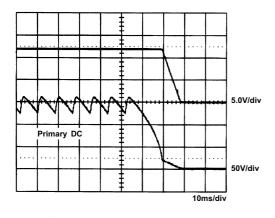
1. Switching frequency ripple



3. Output turn on wave form

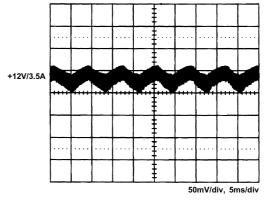


5. Hold-up time

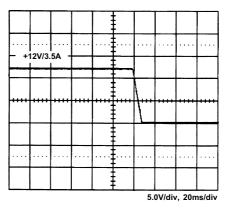


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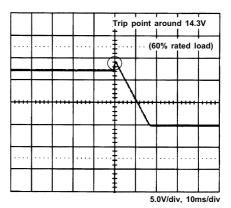
2. Line frequency ripple



4. Output turn off wave form



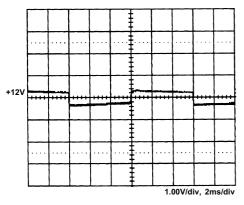
6. Over voltage protection





45W SNP-A04X-M Series

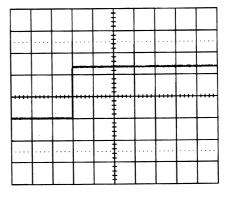
7. +12V step response



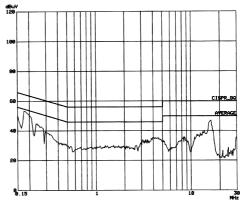
+12V step from 0.7A to 3.5A

9. FCC B

8. Peak Load



10. EN 55022 B



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