THE RELIABLE SOURCE

Switching Adapter (Universal)

Rated 80W
Peak 120W
SNP-A08 Series

Green Power

Description:

SNP-A08 series is designed for both medical and ITE applications. It features with no-load input power < 0.3 watt and average efficiency > 85% that can comply with worldwide green power requirements. Its 50% more peak power capability can offer you a cost-effective solution for the loadings such as motoring, solenoid, capacitive bank, etc. For indicating DC OK, a green LED is provided.

SNP-A08X is for class II input, and SNP-A08X-3 is for class I input.

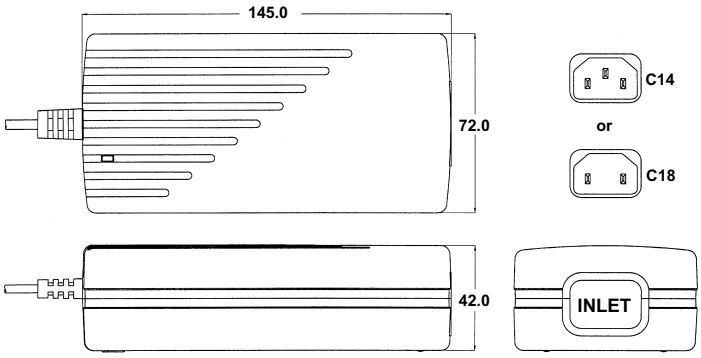
Model available:

- SNP-A087(-3) for 12V/6A
- SNP-A088(-3) for 15V/5A
- SNP-A085(-3) for 18V/4.5A
- SNP-A089(-3) for 24V/3.3A
- SNP-A08T(-3) for 48V/1.75A

General Specifications:

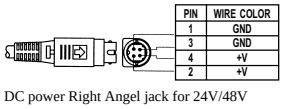
Input voltage	90 VAC to 264 VAC
Input frequency	47 Hz to 63 Hz
Inrush current	less than 35A at 115VAC less than 70A at 230VAC cold start, 25°C
Efficiency	85%~90% depends on the models
Holdup time	> 20 ms at rated load and 115VAC
Average Efficiency	> 85% at 25%, 50%, 75%, 100% of rated load and 115VAC/230VAC input
No-load input power	< 0.3W at 230VAC input
Over voltage protection	latch off
Short circuit protection	auto recovery
Over load protection	auto recovery
DC OK indicator	green LED
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 A
EMS	EN61000-4-2, -3, -4, -5,-6,-8-11
Safety	UL60601-1, UL60950-1 CSA C22.2 No. 60950-1(cUL) TUV EN60601-1, EN60950-1

Mechanical Specifications:



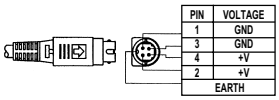
Notes:

1. Dimensions shown in mm (inch) as left. Tolerance: ±1mm (Excluding cables).
2. Size:
   72.0 X 145.0 X 42.0 (mm)
3. Packing:
   Net weight: 470 g approx. / unit
   Gross weight: 12 kg approx. / carton, 20 units / carton
   Carton size (mm): 503 (L) x 362 (W) x 300 (H) (mm)
4. Connectors:
   AC input : IEC 320 Inlet C18 : SNP-A08X
   C14 : SNP-A08X-3
   DC output :
   SNP-A08X
   4 pin Hosiden equivalent plug for 12V/15V/18V



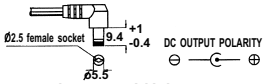
PIN	WIRE COLOR
1	GND
3	GND
4	+V
2	+V

SNP-A08X-3



PIN	VOLTAGE
1	GND
3	GND
4	+V
2	+V
EARTH	

DC power Right Angel jack for 24V/48V



Note: Other type available by customer requested

5. Output cable length: 180 cm approx.
6. DC OK LED: Green light on top of box
7. Grounding:
   DC output GND is connected to safety earth internally for SNP-A08X-3.
8. Box color: Black

-Vincent-

Output Specifications:

MODEL NO.	OUTPUT RAIL	LOAD			VOLTAGE ACCURACY	RIPPLE NOISE	LINE REG.	LOAD REG.	EFFICIENCY TYPICAL
		MIN.	RATED	PEAK					
SNP-A087(-3)	+12V	0A	6A	9A	+11.40V~+12.60V	100mVpp	±0.5%	±3%	84%
SNP-A088(-3)	+15V	0A	5A	7.5A	+14.25V~+15.75V	100mVpp	±0.5%	±3%	85%
SNP-A085(-3)	+18V	0A	4.5A	6.7A	+17.10V~+18.90V	100mVpp	±0.5%	±3%	86%
SNP-A089(-3)	+24V	0A	3.3A	5A	+22.80V~+25.20V	100mVpp	±0.5%	±3%	87%
SNP-A08T(-3)	+48V	0A	1.75A	2.5A	+45.60V~+50.40V	200mVpp	±0.5%	±3%	89%

Note:

1. At peak load, the output can last for 10 seconds without shut down.
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 20MHz 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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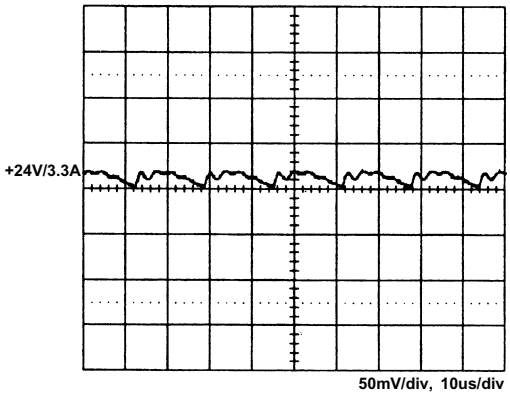
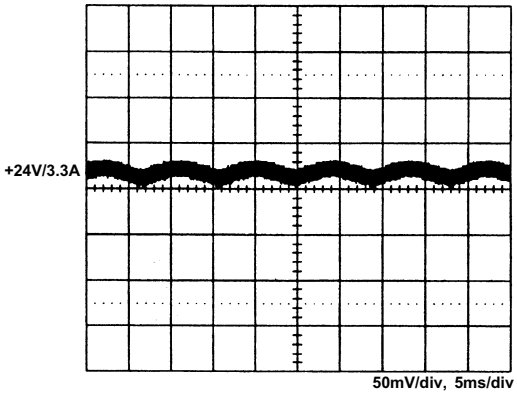
Performance for SNP-A089:

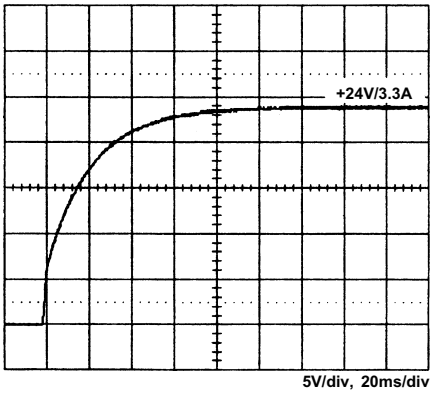
1. Switching frequency ripple



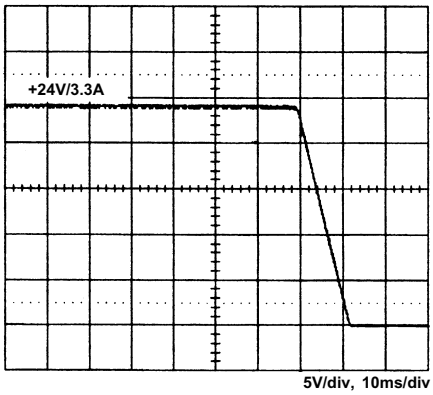
2. Line frequency ripple



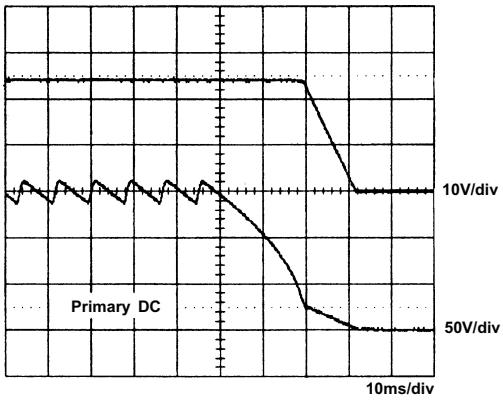
3. Output turn on wave form



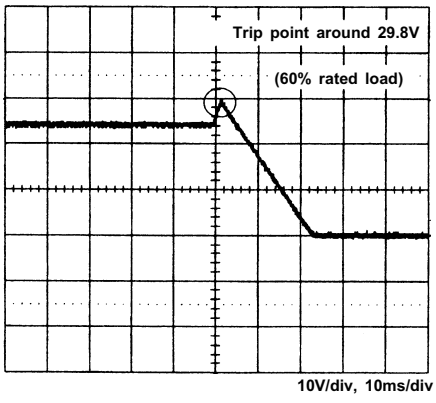
4. Output turn off wave form



5. Hold-up time



6. Over voltage protection



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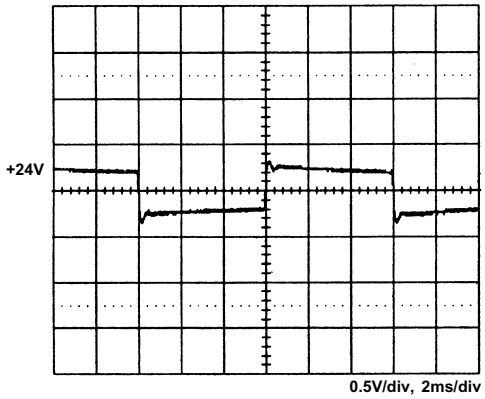
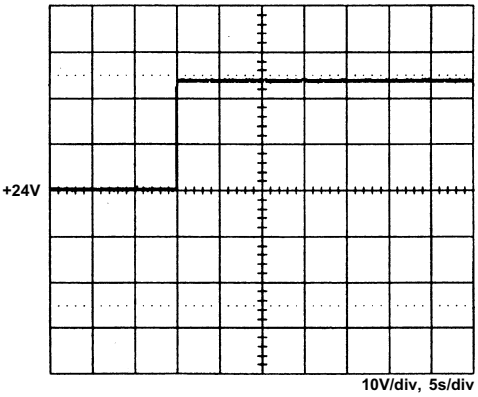
7. +24V step response

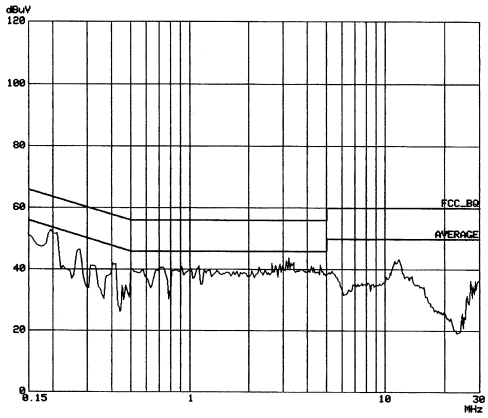


+24V steps from 0.66A to 3.3A

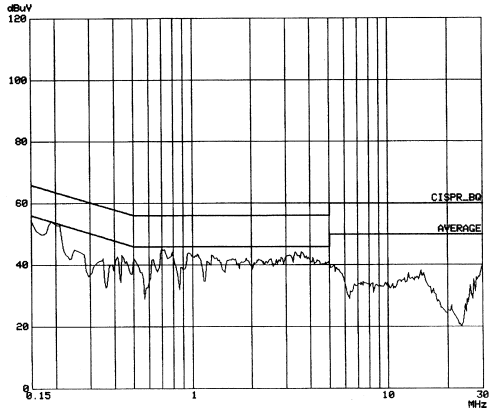
8. Peak Load



9. FCC B



10. CISPR 22



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