

Rated 200W Peak 330W SNP-A20x-S Series



103 x 210 x 52 (mm)

Features:

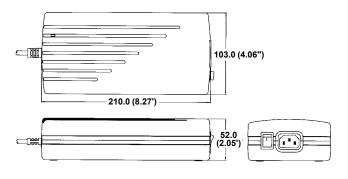
- With AC switch
- Meet Erp design
- With remote on/off
- Design for BF application
- With ITE & Medical safety
- High efficiency > 89%
- Standby input power < 0.5W at 5Vsb/0.25W

General Specifications:

Input voltage	90 VAC to 264 VAC
Input frequency	
Inrush current	< 30A at 115VAC
(cold start at 25°C)	or < 60A at 230VAC
Efficiency90%	depends on the models
Holdup time	> 16 ms
at:	rated load and 115VAC
Average efficiency> 89% at	25%, 50%, 75%, 100%
	115VAC/230VAC input
No-load input power<	
Standby input power	< 0.5W at 5Vsb/0.25W
Over voltage protection	latch off

Short circuit protection	auto recovery
	auto recovery
	green LED
	20°C to 60°C
1 & 1	above 40°C, derate 2.5%/per degree
Cooling	free air convection
Storage temperature	20°C to +85°C
EMI	FCC class "B"
	CISPR22 level "B"
Harmonics	EN61000-3-2 class D
EMS	EN61000-4-2, -3, -4, -5,-6,-8-11
Safety	Meet UL60950-1 : (cULus)
•	EN 60950-1 : 2006 +A11 (TUV)
AN	SI/AAMI ES60601-1 : 2005 (cULus)
	EN 60601-1 · 2006 (TUV)

Mechanical Specifications:



Notes:

1. Size:

103 x 210 x 52 (mm)

2. Connectors:

AC input: IEC 320 Inlet

DC output: Molex 39-01-0280 or equivalent

- 3. Output cable length: $90 \sim 150$ cm
- 4. DC OK LED: Green light on top of box
- 5. Box color: Black
- 6. Packing:

Net weight: 1.1 kg approx. / unit

Gross weight: 14.0 kg approx. / carton, 10 units / carton Carton size (mm): 412 (L) x 336 (W) x 387 (H)

-Jim-



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Output Specifications:

MODEL	OUTPUT	LOAD				VOLTAGE	RIPPLE	LINE	LOAD	EFFICIENCY
NO.	RAIL	MIN.	RATED	MAX.	PEAK	ACCURACY	NOISE	REG.	REG.	TYPICAL
SNP-A207-S	+12V +5Vsb	0A 0A	15A 0.5A		28A 1A	+11.40V~+12.60V +4.75V~+5.25V	200mVpp 100mVpp	±0.5%	±3%	89%
SNP-A209-S	+24V +5Vsb	0A 0A	8A 0.5A		14A 1A	+22.80V~+25.20V +4.75V~+5.25V	200mVpp 100mVpp	±0.5%	±3%	89%

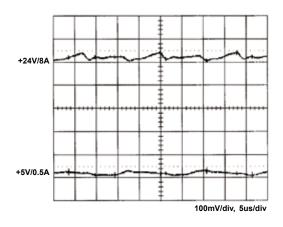
Note:

- 1. At peak load, the output can last for 5 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 $\pm 10\%$ 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 + 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.

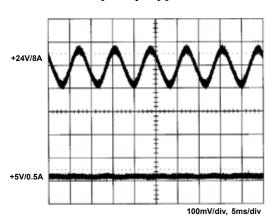
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Performance for SNP-A209-S (input voltage is 115VAC, unless others specified):

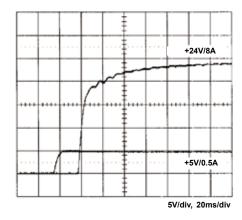
1. Switching frequency ripple



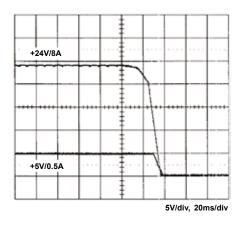
2. Line frequency ripple



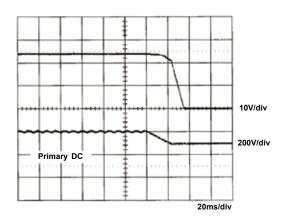
3. Output turn on wave form



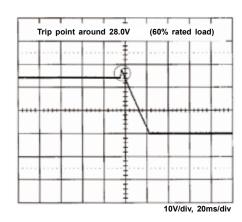
4. Output turn off wave form



5. Hold-up time



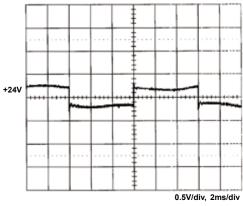
6. Over voltage protection



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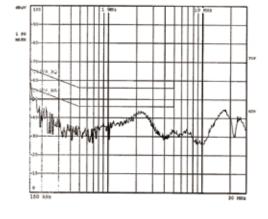
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7. +24V step response



+24V step from 1.66A to 8A

9. EN 55011 B



8. FCC B

