RAID System (Auto Range)

(Hot Swap) 200W SNP-R203

Description:

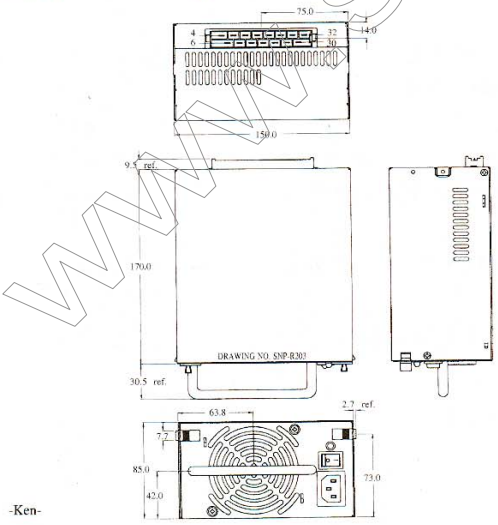
The redundancy family with output power from 80W to 450W, meets the needs of Disk Array, RAID system, and Sub-system applications.

SNP-R203 features hot swap capability and redundant operation that is useful for storage data system.

General Specifications:

Input voltage	90 VAC to 135 VAC 180VAC to 270VAC, auto range
Input frequency	47 Hz to 63 Hz
Input current	5A at 115VAC, 3A at 230VAC
Inrush current	less than 30A, cold start 25°C
Outputs	See output table
Efficiency	65% typical
Hold up time	> 16ms, at nominal line and rated load
Over current protection	auto recovery
Short circuit protection	auto recovery
Over voltage protection	latch-off
Redundancy	built in isolation diodes
DC ok	present 5V operation ok
Operating temperature	0°C to 40°C
Cooling	forced air convection
Storage temperature	-20°C to +85°C
EMI	FCC 20780 "B", EN55022 "B"
EMS	IEC-801-2/3/4/5
Safety	meet UL 1950 CSA 22.2 No. 234 EN60950

Mechanical Specifications:



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Notes:

1. Dimensions shown in mm as left.
   Tolerance: ±0.8mm.
2. Size:
   150 x 170 x 85 (mm)
3. Connectors:
   AC inlet : meet IEC 320
   DC output :
   Din 41612 H15 male connector

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4. Pin assignment:

Pin 4	FAN OK	20	GND
6	+5V	22	+12V
8	+5V	24	+12V
10	GND	26	+12V
12	GND	28	+12V
14	GND	30	DC ok
16	GND	32	Safety Earth
18	GND		

Output Specifications:

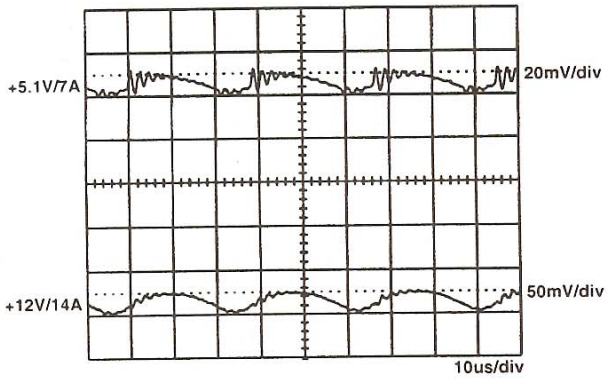
MODEL NO.	OUTPUT RAIL	LOAD				VOLTAGE ACCURACY	RIPPLE NOISE	LINE REG.	LOAD REG.
		MIN.	RATED	MAX.	PEAK				
SNP-R203	+5V	1A	7A	14A		+5.0V~+5.2V	50mVpp	±1%	±3%
	+12V	2A	14A	14A	26A	+11.4V~+12.6V	120mVpp	±1%	±5%

Note:

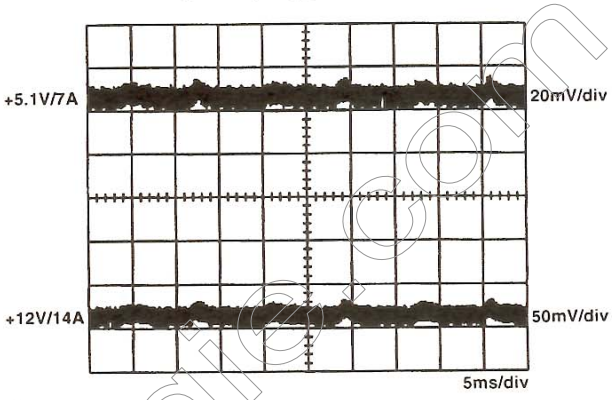
1. The max. load should be kept within 200W and the peak load can provide up to 30 seconds.
2. At factory, in 60% rated load condition, each output is checked to be within voltage accuracy.
3. Line regulation is defined by changing ±10% of input voltage from nominal line at rated load.
4. Load regulation is defined by changing ±40% of measured output load from 60% rated load at another output set to 60% rated load.
5. Ripple & noise is measured by using 15MHz bandwidth limited oscilloscope and terminated each output with a 0.47uF capacitor and a 47*u* electrolytic 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:

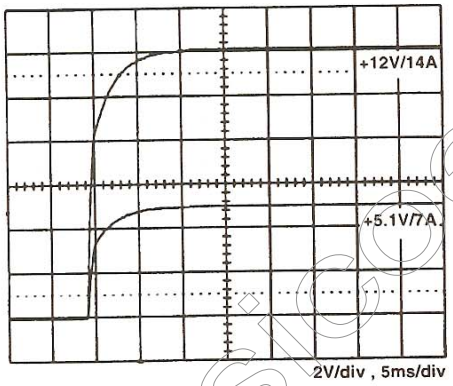
1. Switching frequency ripple



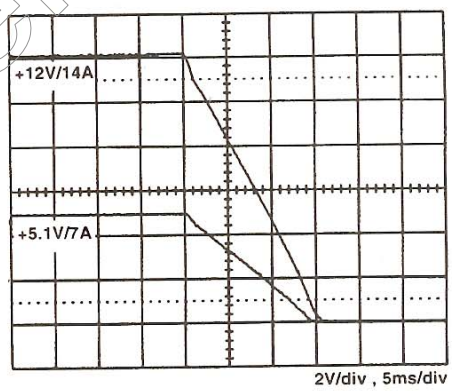
2. Line frequency ripple



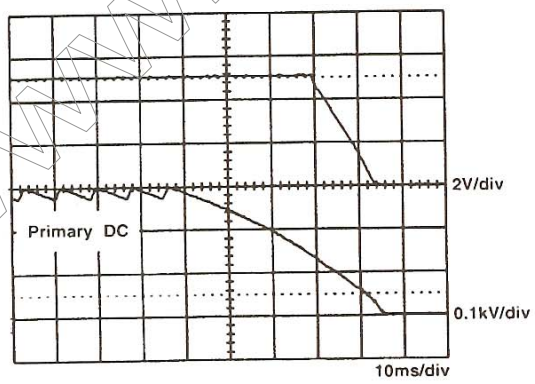
3. Output turn on wave form



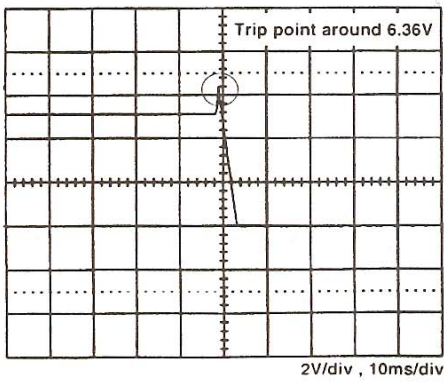
4. Output turn off wave form



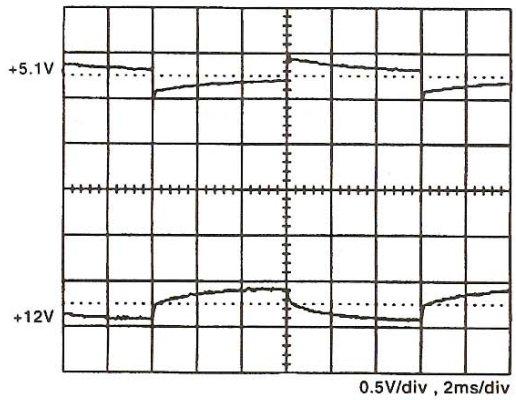
5. Hold-up time



6. Over voltage protection

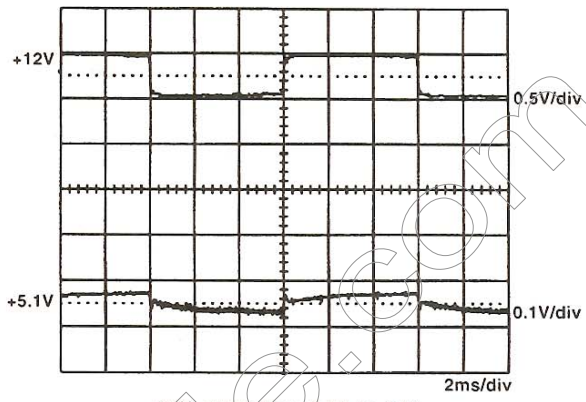


7. +5.1V step response



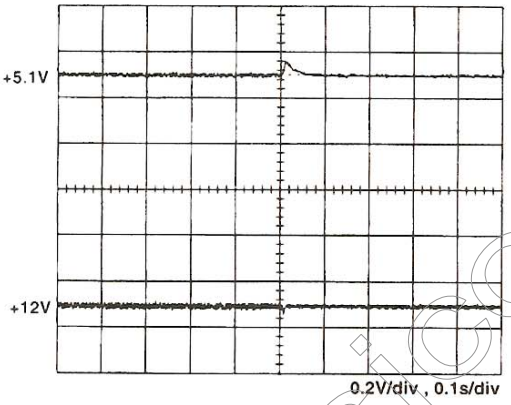
+5V steps from 1.4A to 7A
other output at 60% load

8. +12V step response

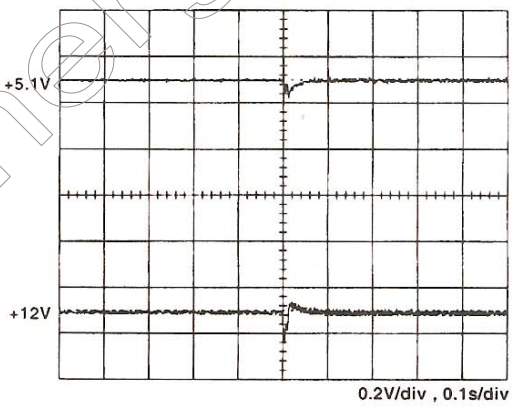


+12V steps from 2.8A to 14A
other output at 60% load

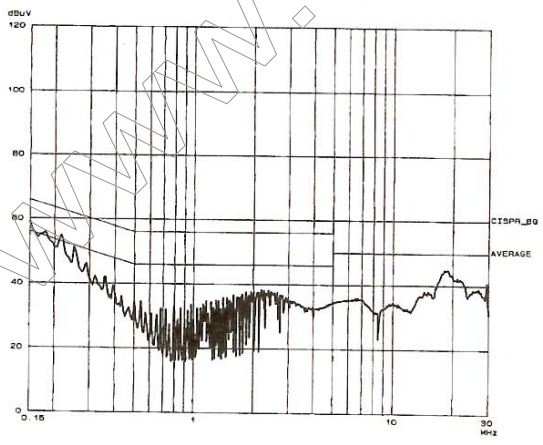
9. Power redundancy (1 --> 2)



10. Power redundancy (2 --> 1)



11. EN 55022 "B"



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