



RAID System (Auto Range)

(Hot Swap) **300W**
SNP-R300



Description:

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

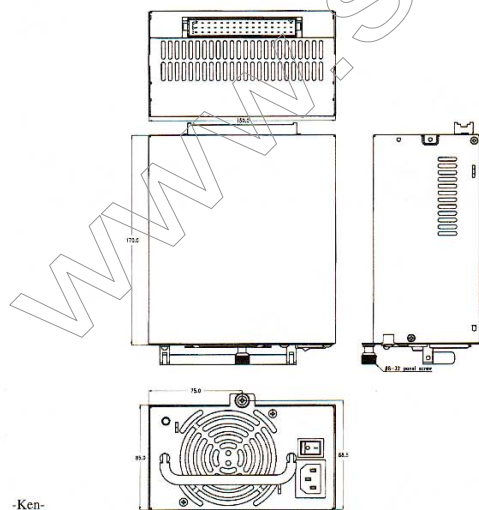
SNP-R300 features hot swap capability and redundant operation that is useful for ATX file server and Data system.

General Specifications:

Input voltage 90 VAC to 130 VAC
 180VAC to 260VAC, auto range
 Input frequency 47 Hz to 63 Hz
 Input current 8A at 115VAC, 4A at 230VAC
 Inrush current less than 40A, cold start 25°C
 Outputs See output table
 Efficiency 65% typical
 Hold up time > 16ms, at nominal line and rated load
 Over current protection latch off

Short circuit protection..... latch off
 Over voltage protection latch-off
 Redundancy built in isolation diodes
 Power good normally high
 Operating temperature 0°C to 40°C
 Cooling forced air convection
 Storage temperature -20°C to +85°C
 EMI FCC 20780 "B", EN55022 "B"
 Safety meet UL 1950
 CSA 22.2 No. 234
 EN60950

Mechanical Specifications:



Notes:

- Dimensions shown in mm as left.
Tolerance: ± 0.8 mm.
- Size:
150 x 170 x 85 (mm)
- Connectors:
AC inlet : meet IEC 320
DC output : Din 41612 F48 male connector



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4. Pin assignment:

2~6 dbz	--	+5V
8~14 dbz	--	GND
16, 18 dbz	--	+12V
20 dbz	--	+3.3V
22b	--	P.G., P.F.
22d	--	Remote ON/OFF
24z	--	-12V
26 dbz	--	Earth

Output Specifications:

MODEL NO.	OUTPUT RAIL	LOAD				VOLTAGE ACCURACY	RIPPLE NOISE	LINE REG.	LOAD REG.
		MIN.	RATED	MAX.	PEAK				
SNP-R300	+5V	1A	17A	25A		+5.0V~+5.3V	50mVpp	±1%	±3%
	+12V	0A	16A	20A		+11.8V~+13.2V	100mVpp	±1%	±5%
	-12V	0A	0.5A			-11.3V~-12.6V	100mVpp	±1%	±5%
	-5V	0A	0.5A			-4.65V~-5.25V	100mVpp	±1%	±5%
	+3.3V	0A	7.5A	10A		+3.15V~+3.65V	50mVpp	±1%	±5%

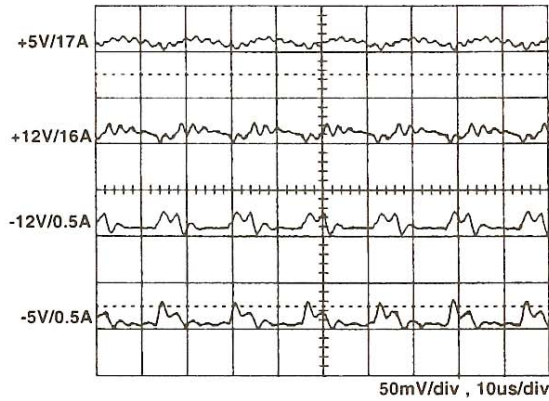
* 120W for +5V and +3.3V combined output.

Note:

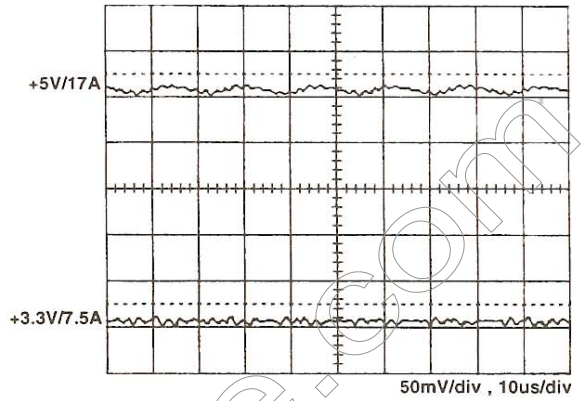
1. The total continuous power should be kept within 300W.
2. At factory, in 60% rated load condition, each output is checked to be within voltage accuracy.
3. Line regulation is defined by changing ±10% of input voltage from nominal line at rated load.
4. Load regulation is defined by changing ±40% of 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 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 +5V output drops down to +4.75V at rated load and nominal line.
7. Efficiency is measured at rated load and nominal line.

Performance:

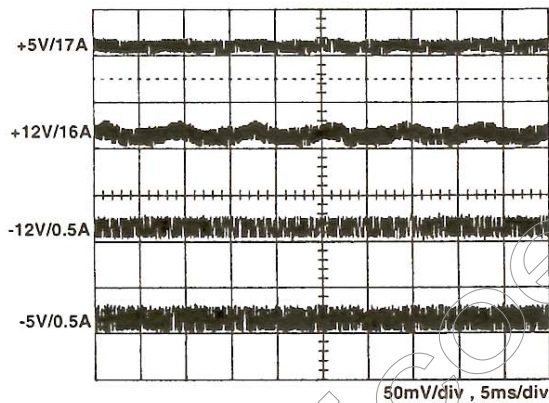
1. Switching frequency ripple



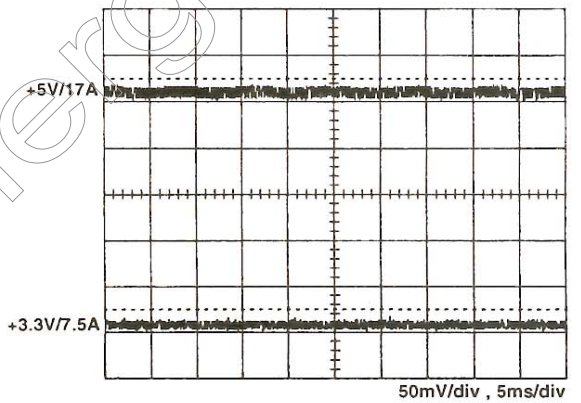
2. Switching frequency ripple



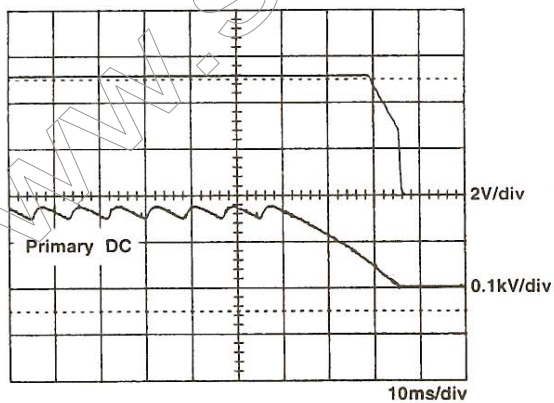
3. Line frequency ripple



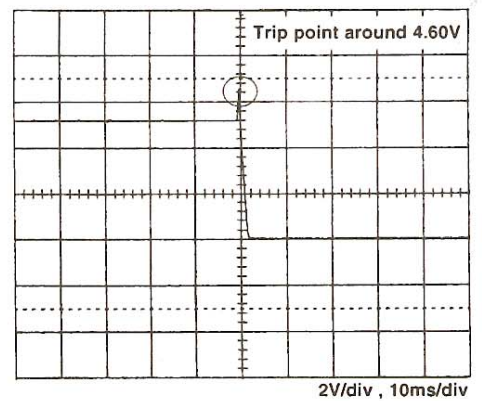
4. Line frequency ripple



5. Hold-up time

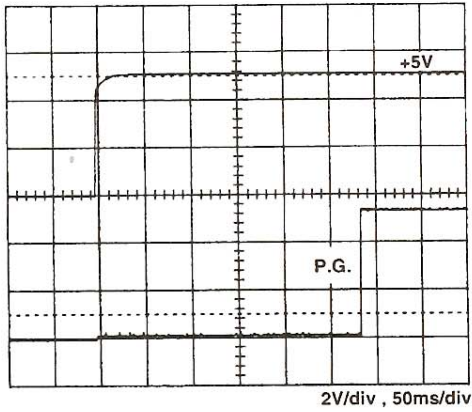


6. Over voltage protection

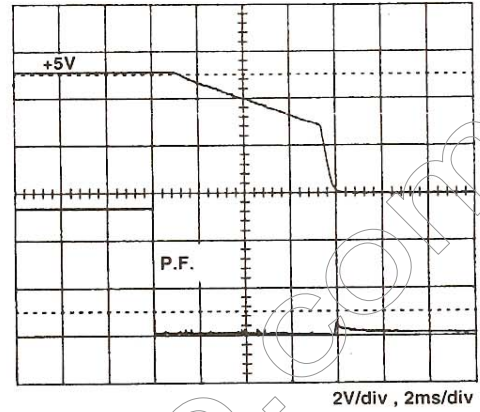




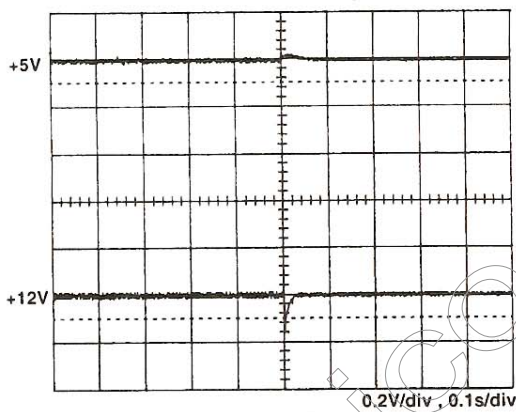
7. Power good signal



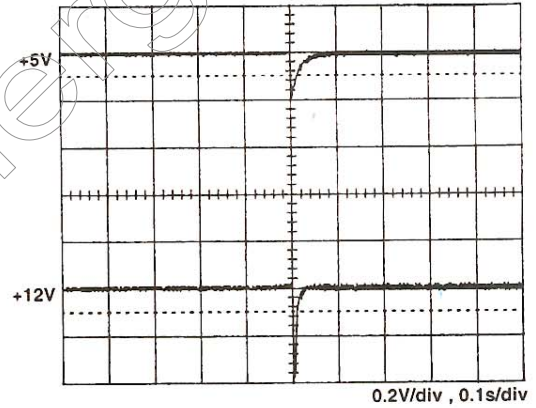
8. Power fail signal



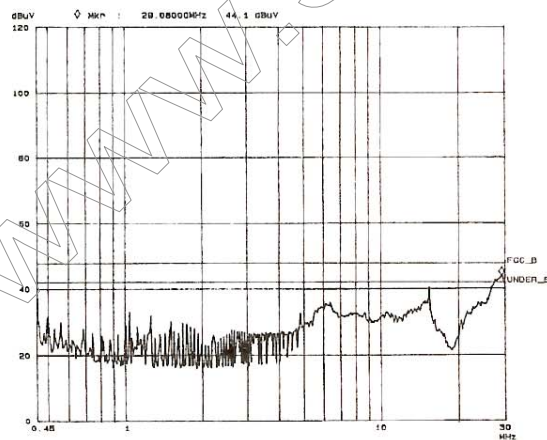
9. Power redundancy (1 --> 2)



10. Power redundancy (2 --> 1)



11. FCC "B"



12. EN55022 "B"

