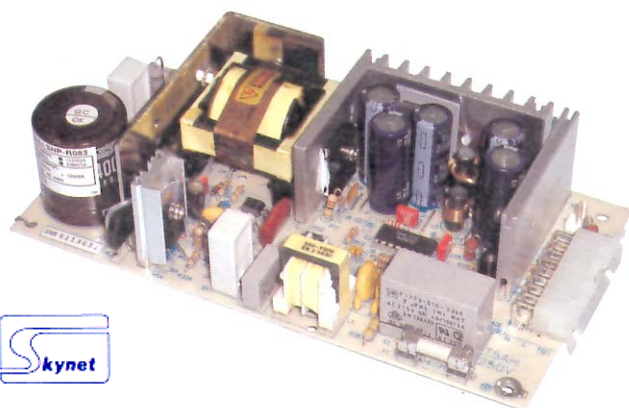




RAID System (Universal)

(Hot Swap) **80W~450W**
SNP- R083



Description:

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

SNP-R083 features hot swap capability and current sharing function for redundant operation, the high peak current is suitable for motor starting.

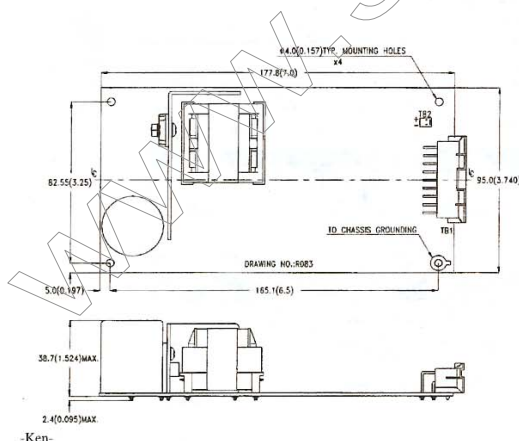
General Specifications:

Input voltage 85VAC to 264VAC
Input frequency 47Hz to 63Hz
Input current 2A at 115VAC, 1A at 230VAC
Inrush current less than 2A at 115VAC
cold start, 25°C
Outputs see output table
Efficiency 70% typical
at nominal line and rated load
Hold up time > 16ms
at rated load and 115VAC
Over voltage protection latch off

Over load protection latch off
Short circuit protection latch off
Power sharing active sharing, N+1 function
Power OK open collector, active low
Operating temperature 0°C to 50°C
Cooling free air convection
Storage temperature - 40°C to +75°C
EMI FCC 20780 "B", Vfg 243 "B"
Safety meet UL 1950
CSA 22.2 No.234
EN60 950

Mechanical Specifications:

SNP-R083



Notes:

- Dimensions shown in mm as left. Tolerance specified is ± 0.4 mm.
- Size:
95 x 177.8 x 42 (mm)
- Connectors
a) AC input & DC output : Molex A-42404-18 or equivalent
b) LED indicator : Molex 5045-02A or equivalent
- Pin assignment

Pin 1	+5V	Pin 10	+5V
2	GND	11	GND
3	GND	12	GND
4	+12V	13	+12V
5	+12V	14	Power ok
6	N.C.	15	Power share
7	F.G.	16	F.G.
8	N.C.	17	N.C.
9	AC L	18	AC N



RAID System (Universal)

(Hot Swap) **80W~450W**
SNP- R083

Output Specifications:

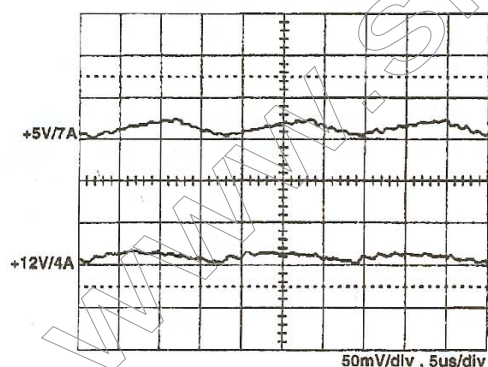
MODEL NO.	OUTPUT RAIL	LOAD			VOLTAGE ACCURACY	RIPPLE NOISE	LINE REG.	LOAD REG.
		MIN.	RATED	PEAK				
SNP-R083	+5V		7/4.5A	10/6.5A	+4.8V~+5.15V	50mVpp	±1%	±2%
	+12V		4/5A	7/14.5A	+116V~+12.8V	120mVpp	±1%	±5%

Notes:

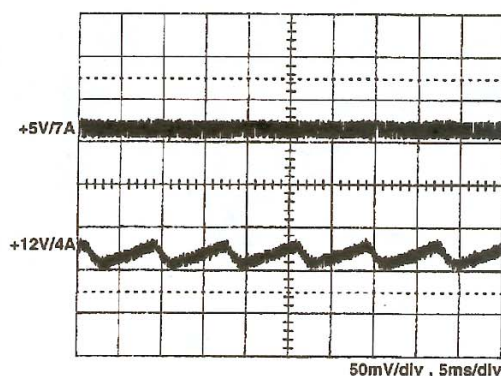
- Each output can provide up to peak load temporarily. Continuous staying in more than rated load is not allowed.
- At factory, all outputs in 60% rated load condition, each output is checked to be within the accuracy range while the main output is setting to within the specified accuracy range at rated load.
- Line regulation is defined by changing $\pm 10\%$ of input voltage from nominal line at rated load.
- Load regulation is defined by changing $\pm 40\%$ of measured output load from 60% rated load at another output set to 60% rated load.
- Ripple & noise is measured by using 15MHz bandwidth limited oscilloscope and terminated each output with a $0.47\mu\text{F}$ capacitor at rated load and nominal line.
- Hold up time is measured from the end of the last charging pulse to the time which the +5V output drop down to 4.75V at rated load and nominal line.
- Efficiency is measured at rated load and nominal line.
- Two loads range are available under total power 85W.

Performance:

1. Switching frequency ripple

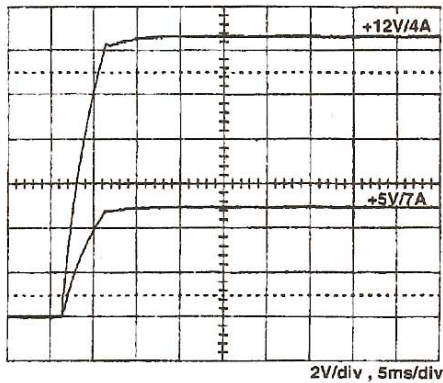


2. Line frequency ripple

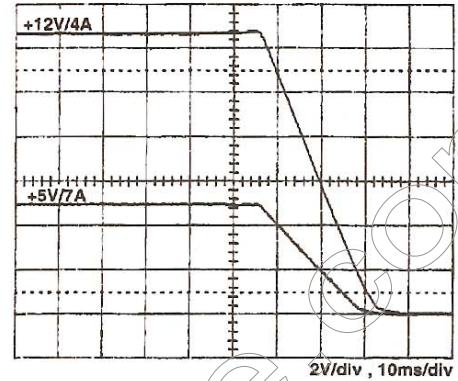




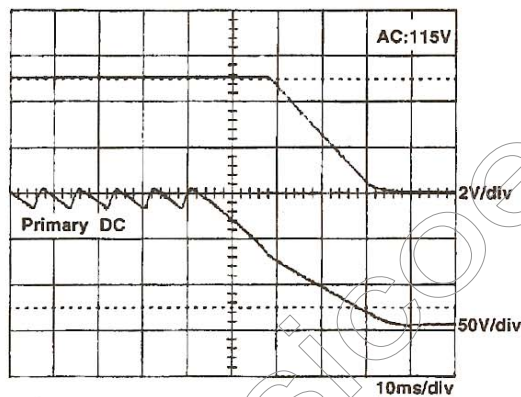
3. Output turn on wave form



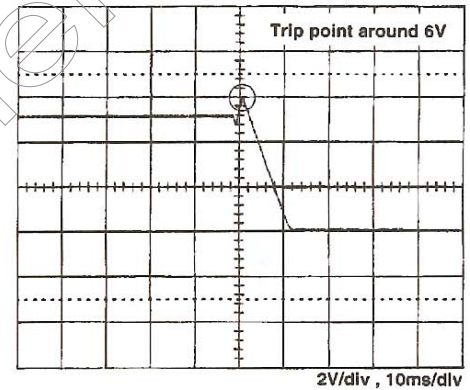
4. Output turn off wave form



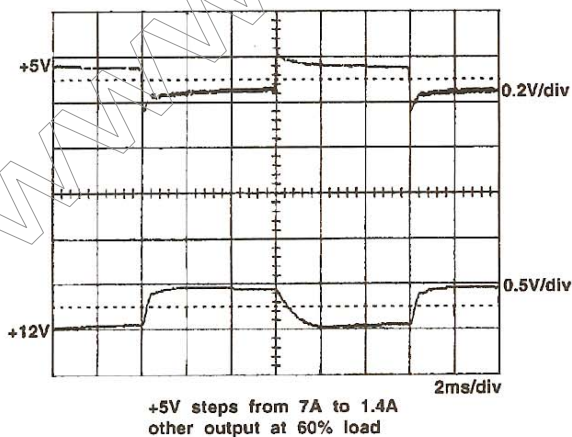
5. Hold-up time



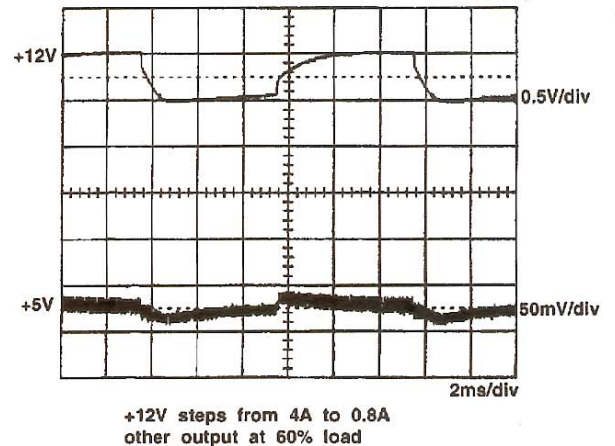
6. Over voltage protection



7. +5V step response



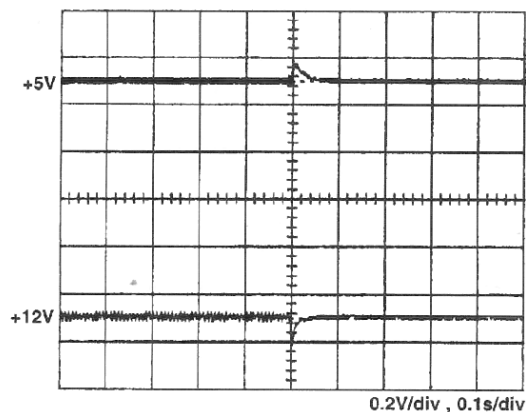
8. +12V step response



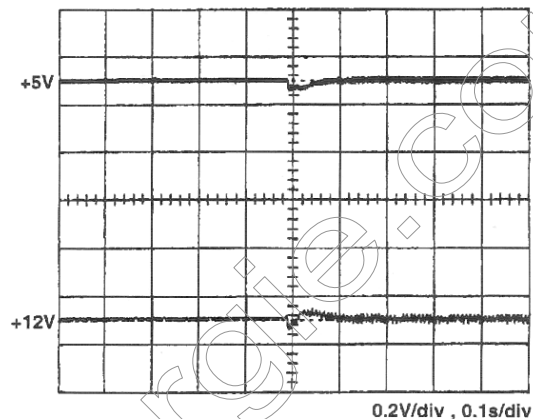
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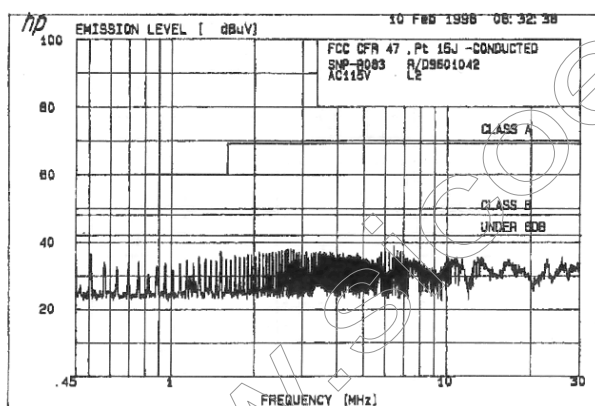
9. Power redundancy (1 --> 2)



10. Power redundancy (2 --> 1)



11. FCC B



12. Vfg 243

