



Preliminary RAID System (Universal)

**PFC + 430W
SNP-Z4J3**



Description:

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

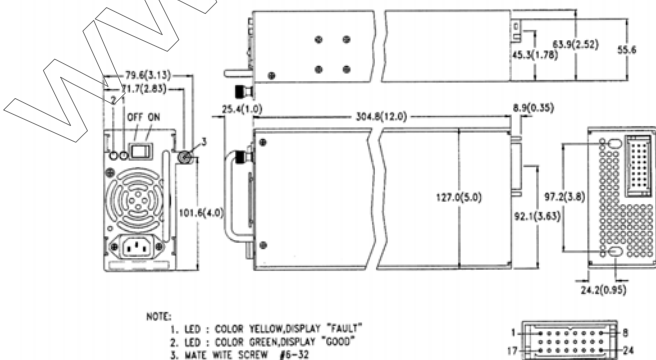
SNP-Z4J3 with Power factor correction solution features hot swap capability and current sharing function for redundant operation that make the best choice for communications and storage data processing system.

General Specifications:

Input voltage	90VAC to 260VAC	Power sharing	active sharing, N+1 function
Input frequency	47Hz to 63Hz	Power good / fail	normally low
Input current	10A at 115VAC, 5A at 230VAC	Power enable	normally high, drive low to enable
Inrush current	less than 20A at 115VAC cold start, 25°C	Operating temperature	0°C to 50°C
Outputs	see output table	Cooling	forced air convection
Efficiency	75% typical	Storage temperature	- 20°C to +85°C
Hold up time	> 16ms at nominal line and rated load	EMI	FCC 20780 "B", EN 55022 "B"
Over voltage protection	latch off	EMS	EN61000-4-2,-3,-4,-5
Short circuit protection	latch off	Harmonics	EN61000-3-2
Over current protection	latch off	PFC	> 0.9 at nominal line and rated load
Remote sense	each output sense individual	Safety	meet UL 60950 CSA 22.2 60950 EN60 950

Mechanical Specifications:

For reference



Notes:

- Dimensions shown in mm (inch) as left. Tolerance specified is ± 0.8 mm.
- Size:
5 x 12 x 2.5 (inch) high fully enclosure
- Connectors
AC inlet : meet IEC 320
Main connector : Positronic PLC24M4B3NOA1-139.14
- Pin assignment

Pin 1	12V share
2,4,5,6,10,13	GND
3	AC OK (AC Power Fail Warning)
7,15,23	5V
9	12V MRGN
12	12V sense
14	5Vsb
16,17,24	12V
18	5V share
19	PWR Enable
20	5V sense
21	5V MRGN
22	PWR OK (Output Good)



Preliminary RAID System (Universal)

PFC + 430W
SNP-Z4J3

Output Specifications:

MODEL NO.	OUTPUT RAIL	LOAD			VOLTAGE ACCURACY	RIPPLE NOISE	LINE REG.	LOAD REG.
		MIN.	RATED	MAX.				
SNP-Z4J3	+5V	0A	31A	35A	+5.0V~+5.1V	50mVpp	±1%	±4%
	+12V	0A	23A	30A	+11.4V~+12.6V	120mVpp	±1%	±4%
	5Vsb	0A	0.25A		+4.9V~+5.5V	100mVpp	±1%	±5%

* 5Vsb for DC ON/OFF remote control.

* The peak power can provide 500W up to 15 seconds.

Notes:

1. Each output can provide up to max. load under the total power 430W.
2. 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.
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 $\pm 40\%$ 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 0.47 μ F 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 drop down to 4.75V at rated load and nominal line.
7. Efficiency is measured at rated load and nominal line.