

### Features:

- With built-in PFC
- Only 1.26 inch height
- 4.8 Watt per cubic inch
- With ITE safety
- Efficiency between 80% to 90%
- Operation from 0°C to 70°C by convection

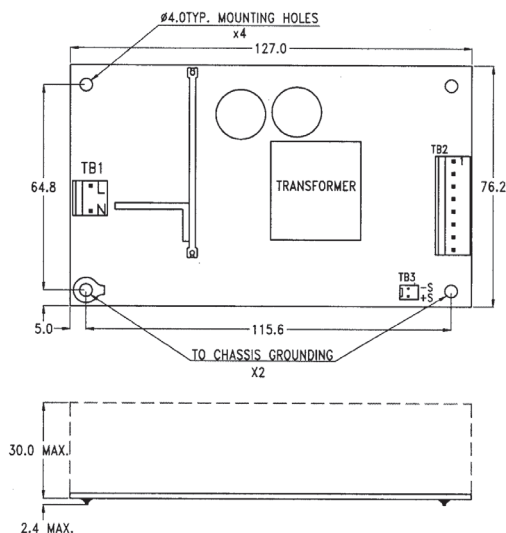
### General Specifications:

Input voltage .....	90 VAC to 264 VAC
Input frequency .....	47 Hz to 63 Hz
Inrush current .....	less than 30A at 115VAC less than 60A at 230VAC cold start, 25°C
Efficiency .....	80%~90% depends on models
Hold up time .....	20mS typical at rated load and 115VAC
Over load protection .....	auto recovery
Short circuit protection.....	auto recovery
Over voltage protection .....	latch off

Max. capacitive load .....	SNP-Z106 / 30000uF SNP-Z107 / 10000uF, SNP-Z109 / 2700uF
Remote Sense .....	compensates for 0.5V load drop min.
Operating temperature (open frame type) .....	0°C to 70°C derating: 2.5% / °C > 50°C
Cooling .....	free air convection for 100W with 18CFM forced air flow for 130W
Storage temperature .....	-20°C to +85°C
EMI .....	EN55022 "B", FCC "B"
Harmonics .....	EN61000-3-2
EMS .....	EN61000-4-2,-3,-4,-5,-6,-11
Safety .....	UL 60950-1 CSA C22.2 No. 60950-1, TUV EN60950-1

### Mechanical Specifications:

SNP-Z106



-James-

### Notes:

1. Dimensions shown in mm as left.  
Tolerance: +/-0.4mm.
2. Size:
  - 2.1 SNP-Z106, Z107, Z108, Z109, Z10T, Z10B  
127.0 X 76.2 X 30 (mm)  
5" X 3" X 1.18"
  - 2.2 SNP-Z101, Z103, Z10D  
127.0 X 76.2 X 32 (mm)  
5" X 3" X 1.26"
3. Packing:  
Net weight: 310 g approx. / unit  
Gross weight: 17 kg approx. / carton, 48 units / carton  
Carton size (mm): 397 (L) x 339 (W) x 327 (H)
4. Connectors:  
AC input : Molex 5277-02A or equivalent  
DC output : Molex 5273 or equivalent  
Remote Sense : Molex 5045-02A or equivalent  
(for SNP-Z10X, X=6, 7, 8, 9, B, T)  
Fan Output : Molex 5045-02A or equivalent  
(for SNP-Z101, SNP-Z10D)

### Output Specifications:

MODEL NO.	OUTPUT RAIL	LOAD			VOLTAGE ACCURACY	RIPPLE NOISE	LINE REG.	LOAD REG.
		MIN.	RATED	MAX.				
SNP-Z106	+5V	0A	20A	26A	+4.95V~+5.05V	50mVpp	±0.5%	±1%
SNP-Z107	+12V	0A	9A	10.8A	+11.90V~+12.10V	120mVpp	±0.5%	±1%
SNP-Z108	+15V	0A	7A	8.7A	+14.90V~+15.10V	120mVpp	±0.5%	±1%
SNP-Z109	+24V	0A	4.5A	5.4A	+23.80V~+24.20V	200mVpp	±0.5%	±1%
SNP-Z10T	+48V	0A	2.3A	2.7A	+47.60V~+48.40V	200mVpp	±0.5%	±1%
SNP-Z101	+5V	0A	11.5A	15A	+4.95V~+5.05V	50mVpp	±0.5%	±1%
	+12V	0A	3A	5A	+11.40V~+12.60V	100mVpp	±0.5%	±5%
	-12V	0A	0.5A	0.5A	-11.40V~-12.60V	100mVpp	±0.5%	±5%
SNP-Z103*	+5V	0A	7A	10A	+4.95V~+5.05V	50mVpp	±0.5%	±1%
	+12V	0A	8A	10A	+11.40V~+13.20V	120mVpp	±0.5%	±5%
SNP-Z10D	+3.3V	0A	10A	15A	+3.20V~+3.40V	50mVpp	±0.5%	±1%
	+5V	0A	8A	10A	+4.75V~+5.25V	50mVpp	±0.5%	±5%
	+12V	0A	0.5A	0.5A	+11.40V~+12.60V	100mVpp	±0.5%	±5%
SNP-Z10B	+3.3V	0A	25A	30A	+3.20 ~+3.40V	50mVpp	±0.5%	±1%

\* SNP-Z103: Convection cooling : 100W    Forced air with 18CFM : 130W

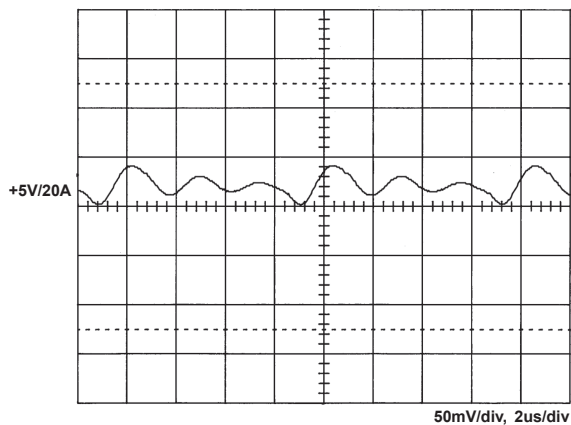
### Note:

1. The total output current is rated load with free air convection and max. load with 18CFM of forced air flow over the unit.
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 47uF 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.

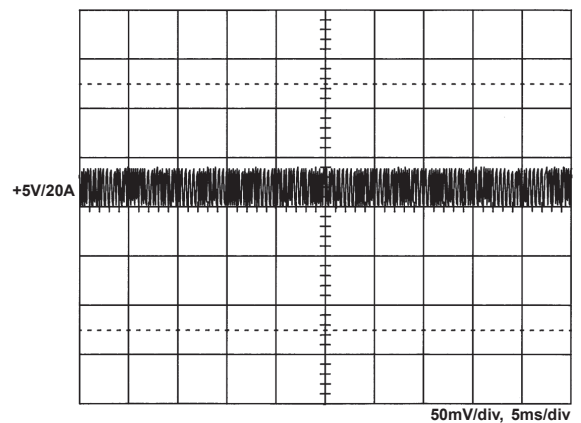
-James-

**Performance for SNP-Z106:**

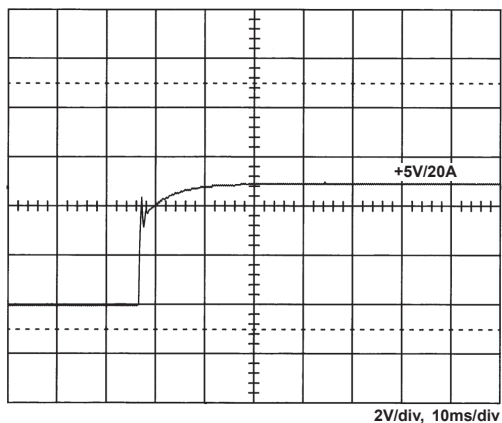
1. Switching frequency ripple



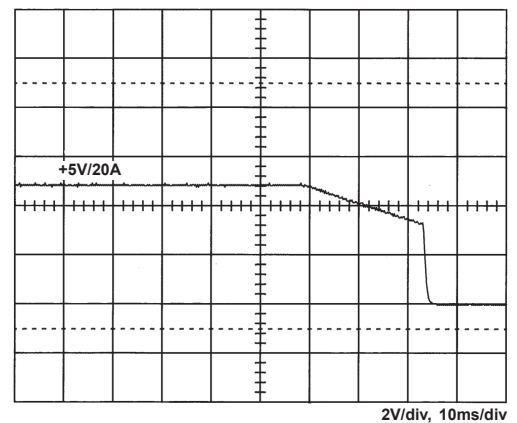
2. Line frequency ripple



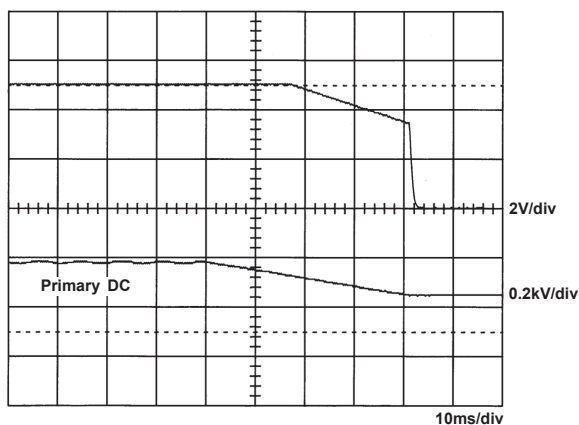
3. Output turn on wave form



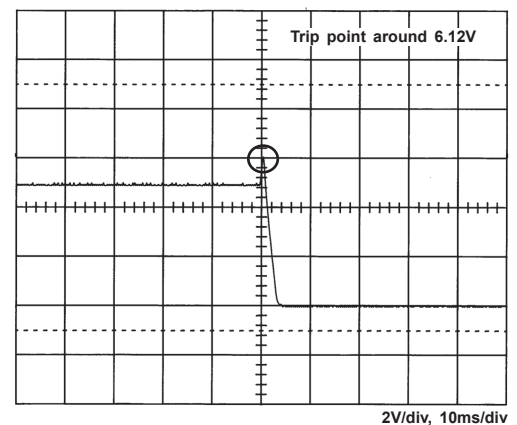
4. Output turn off wave form



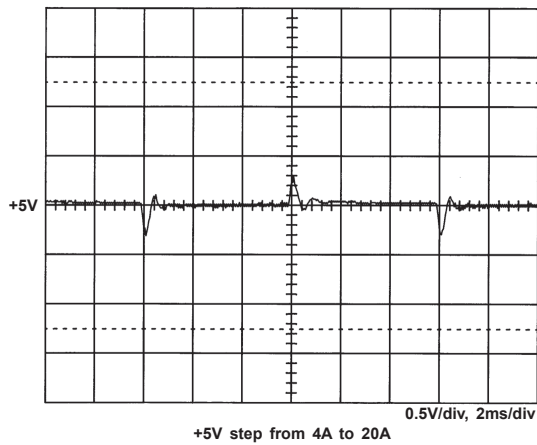
5. Hold-up time



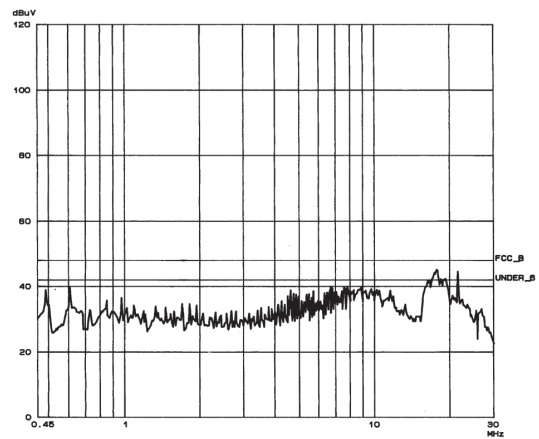
6. Over voltage protection



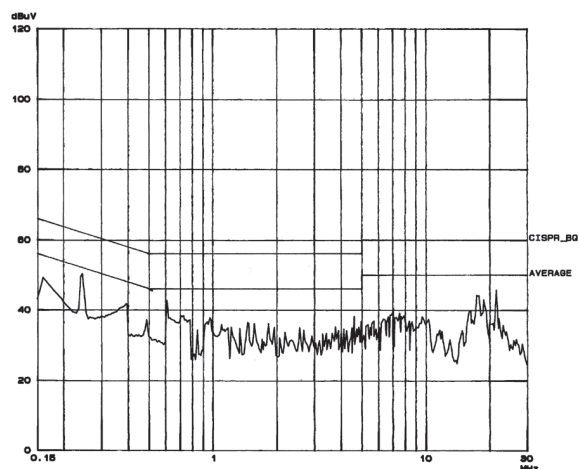
7. +5V step response



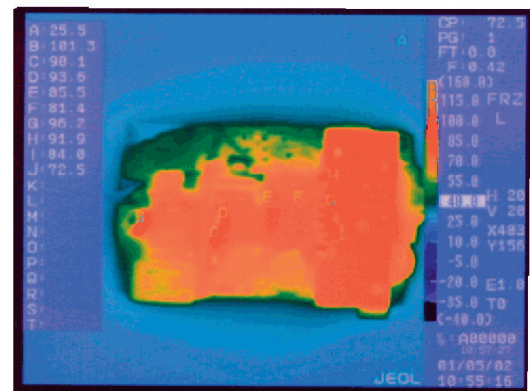
8. FCC B



9. EN55022 B



10. Thermal profile



Test condition:  
M/N : SNP-Z106, Input : 104V  
Output : 5V/20A, Ambient : 25.5°C