

**Description :**

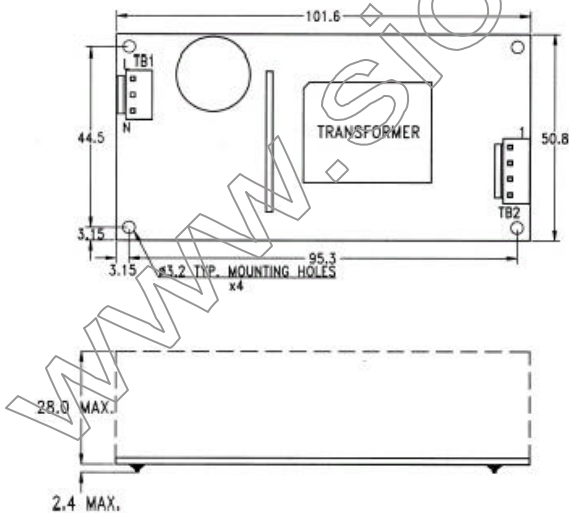
Open frame size of 3" X 5" has become an industrial standard for more than 10 years.  
 The power density stays at 3.0 watts/cu.in. for a long time. Now, the SNP-Z05 series can offer up to 6.7 watts/cu.in. in 2" X 4" X 1.2" size at convection cooling.  
 The safety conformity of SNP-Z05 series covers IT and medical applications.  
 SNP-Z05 series is built with long-life components.  
 For commodity application, ECO-Z05 series is alternative.

**General specifications :**

Input voltage.....90VAC to 264VAC  
 Input frequency.....47 Hz to 63 Hz  
 Inrush current.....less than 30A at 115VAC  
 ( Cold start ) less than 60A at 230VAC  
 Outputs.....see output table  
 Efficiency.....78%~87% depends on models  
 at rated load and 115VAC  
 Hold up time.....14ms typical  
 at rated load and 115VAC  
 Over load protection.....auto recovery  
 Short circuit protection.....auto recovery

Over voltage protection.....latch off  
 Operating temperature ( open frame type ).....0 to 70°C  
 derating : 2.5% / °C > 50°C  
 Cooling.....free air convection  
 Storage temperature.....-40°C to +85°C  
 EMI conduction standard.....FCC "B"  
 EN55022 "B"  
 EMS.....EN61000-4-2,-4,-5,-6,-11  
 Harmonics.....EN61000-3-2 class "A"  
 Safety.....UL 60950,2601  
 CSA 22.2 No.234, 601.1, EN60950, 60601-1

**Mechanical specifications :**



-Vincent-

**Notes:**

- 1- Dimensions shown in mm (inch) as left.  
Tolerance: +/-1mm.
- 2- Size : 101.6 x 50.8 x 30.4 (mm)  
4" x 2" x 1.2"
- 3- Connectors : AC input : JST B2P3-VH or equivalent  
DC output : JST B4P-VH or equivalent
- 4- Pin assignment
 

Pin 1	Vout
2	Vout
3	GND
4	GND



Output specifications :

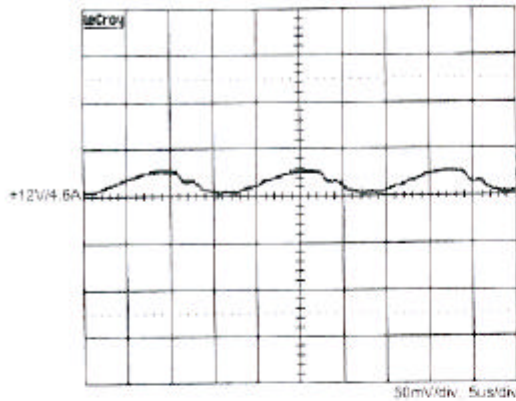
MODEL NO.	OUTPUT RAIL	LOAD			VOLTAGE ACCURACY	RIPPLE NOISE	LINE REG.	LOAD REG.
		MIN.	RATED	MAX.				
SNP-Z056	+5V	0A	7A	9A	+4.95V~+5.05V	50mVpp	±0.5%	±0.5%
SNP-Z057	+12V	0A	4.6A	5.4A	+11.9V~+12.1V	0.5%	±0.5%	±0.5%
SNP-Z058	+15V	0A	3.7A	4.3A	+14.9V~+15.1V	0.5%	±0.5%	±0.5%
SNP-Z059	+24V	0A	2.3A	2.7A	+23.8V~+24.2V	0.5%	±0.5%	±0.5%
SNP-Z05T	+48V	0A	1.2A	1.4A	+47.6V~+48.4V	0.5%	±0.5%	±0.5%
SNP-Z05B	+3.3V	0A	8A	10A	+3.25V~+3.35V	50mVpp	±0.5%	±0.5%

**Note:**

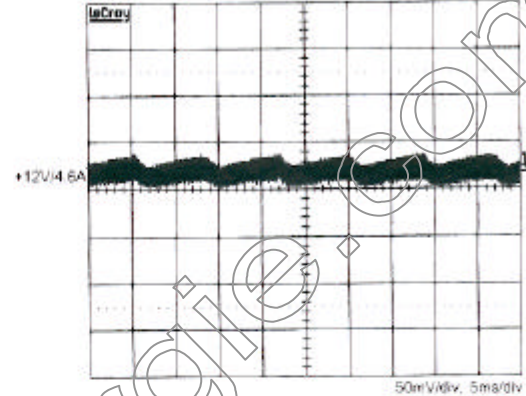
1. The max. load can be provided at 40°C.
2. At factory, all outputs in 60% rated load condition, each output is checked to be within the accuracy range while the main output is setting to within the specified accuracy range at rated load.
3. Line regulation is defined by changing ±10% of input voltage 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 0.47µF capacitor at rated load and nominal line. For SNP-Z056 and SNP-Z05B, one extra 47µF electrolytic capacitor should be added.
6. Hold up time is measured from the end of the last charging pulse to the time which the main output drop down to regulation limit at rated load and nominal line.
7. Rated load is maximum loading for flat mounting and free air convection cooling.

Performance for SNP-Z057:

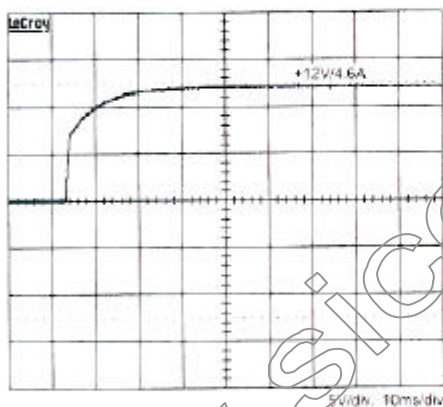
1. Switching frequency ripple



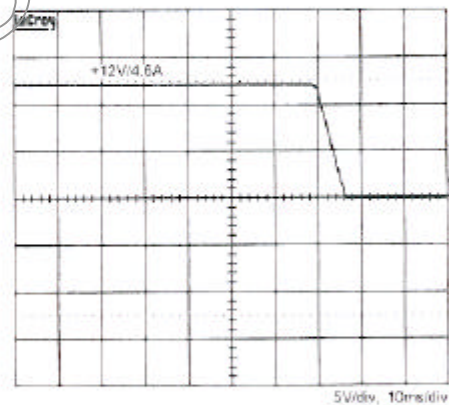
2. Line frequency ripple



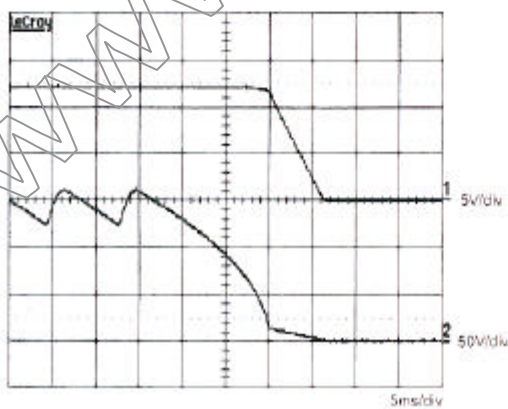
3. Output turn on wave form



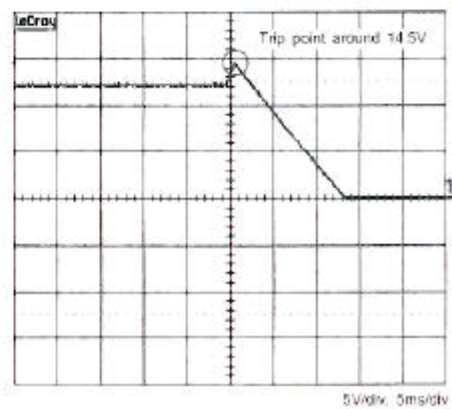
4. Output turn off wave form



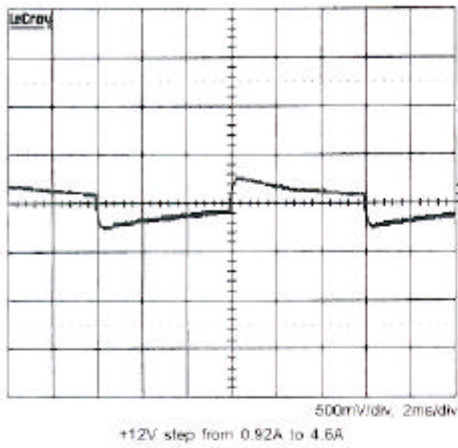
5. Hold-up time



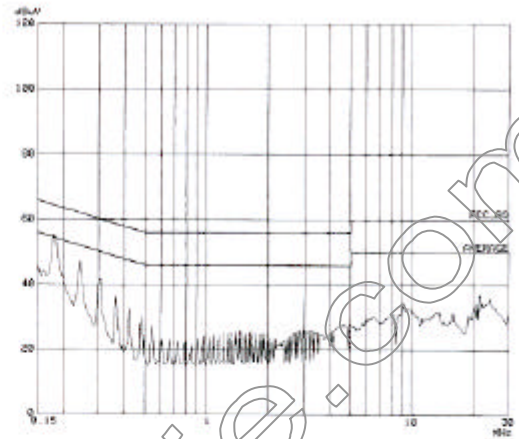
6. Over voltage protection



7. +12V step response



8. FCC B



9. EN 55011 B

