

General Purpose

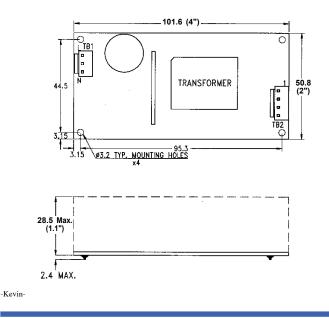


2" x 4" x 1.1"

General Specifications:

Input voltage	
Input frequency	
Inrush current	< 30A at 115VAC
(cold start at 25°C)	or < 60A at 230VAC
Efficiency	. 76%~86% 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

Mechanical Specifications:



Features:

- Only 1.1 inch height
- With ITE & Medical safety
- Efficiency between 76% to 86%
- Operation from 0°C to 60°C by convection

Applications:

• For dental, laboratory products, pumps, monitors, sleep apnea devices and many other uses.

Over voltage protection	latch off
Operating temperature	0°C to 60°C convection
	derating: 2.0% / °C > 50°C
Cooling	free air convection
Storage temperature	-40° C to $+85^{\circ}$ C
EMI	
	EN55022"B", EN55011"B"
EMS	EN61000-4-2,-3,-4,-5,-6,-8,-11
Safety	UL 60950-1, UL 60601-1
	CSA C22.2 No. 60950-1, No. 601.1
	EN 60950-1, EN 60601-1

No	tes:
1.	Size:
	2" x 4" x 1.1"
2.	Mounting Hole:
	44.5 x 95.3 (mm)
3.	Connectors:
	AC input : JST B2P3-VH or equivalent
	DC output : JST B4P-VH or equivalent for single output
	JST B7P-VH or equivalent for multiple outputs
4.	Output Pin assignment:

1	2	3	4	
Vo	Vo	GND	GND	

Packing: Net weight: 140 g approx. / unit Gross weight: 13.5 kg approx. / carton, 80 units / carton Carton size (mm): 382 (L) x 374 (W) x 277 (H)

10 years Warranty (contact Skynet's Distributors for details)

5.



Output Specifications:

MODEL	OUTPUT	LOAD				VOLTAGE	RIPPLE	LINE	LOAD
NO.	RAIL	MIN.	RAGED	MAX.	PEAK	ACCURACY	NOISE	REG.	REG.
SNP-Z056	+5V	0A	7A		9A	+4.95V~+5.05V	50mVpp	±0.5%	±1%
SNP-Z057	+12V	0A	4.6A		5.4A	+11.88V~+12.12V	0.5%	±0.5%	±0.5%
SNP-Z058	+15V	0A	3.7A		4.3A	+14.85V~+15.15V	0.5%	±0.5%	±0.5%
SNP-Z059	+24V	0A	2.3A		2.7A	+23.76V~+24.24V	0.5%	±0.5%	±0.5%
SNP-Z05T	+48V	0A	1.15A		1.35A	+47.6V~+48.4V	0.5%	±0.5%	±0.5%

Note:

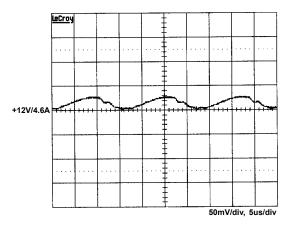
- 1. The max. load can be continuously provided at 40°C and convection cooling conditions. The peak load can be temporarily provided up to 8 seconds.
- 2. At factory, all outputs in 60% rated load condition, each output is checked to be within the accuracy range while the main output is setting to within 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.
- 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. For SNP-Z056 and SNP-Z05B, one extra 47uF 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. Model Selection:

SNP-Z05x is for both of ITE application and medical application.

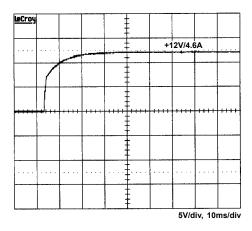


Performance for SNP-Z057:

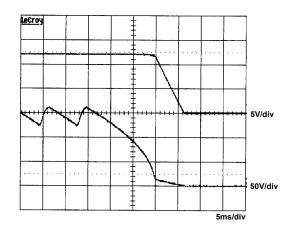
1. Switching frequency ripple



3. Output turn on wave form

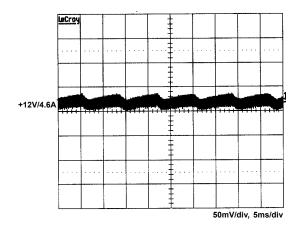


5. Hold-up time

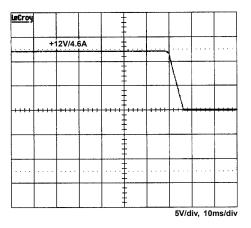


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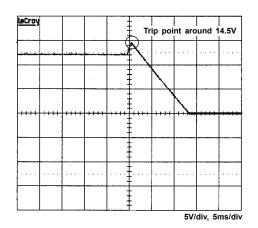
2. Line frequency ripple



4. Output turn off wave form

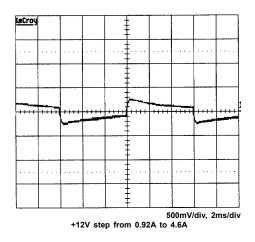


6. Over voltage protection

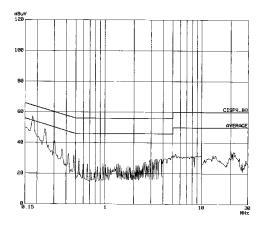




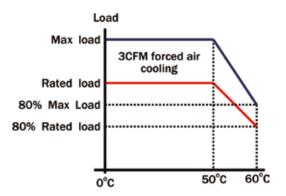
7. +12V step response

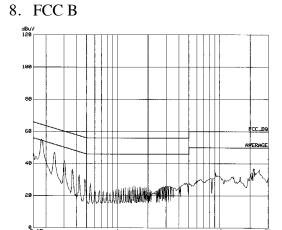


9. EN 55011 B

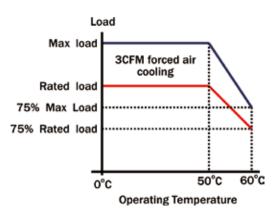


11. Power derating curve (SNP-Z057/8/9/T)





10. Power derating curve (SNP-Z056)



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