

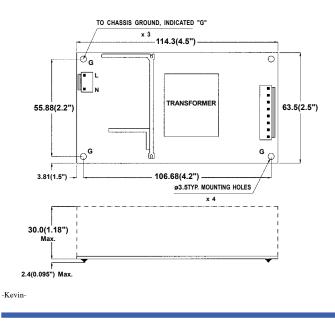


2.5" x 4.5" x 1.18"

General Specifications:

Input voltage	
Input frequency	
Inrush current	< 30A at 115VAC
(cold start at 25°C)	or < 60A at 230VAC
Efficiency	. 81%~87% depends on models
	at rated load and 115VAC
Hold up time	
	at rated load and 115VAC
Over load protection	auto recovery
Short circuit protection	auto recovery

Mechanical Specifications:



Features:

- Only 1.18 inch height •
- With ITE & Medical safety
- Efficiency between 81% to 87% •
- Operation from 0°C to 70°C by convection •

Applications:

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

Over voltage protection	latch off
Operating temperature (open fra	ame type) 0° C to 70° C
	derating: $2.5\% / °C > 50°C$
Cooling	free air convection
Storage temperature	-40°C to +85°C
ЕМІ	
	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, 601.1
	EN 60950-1, EN 60601-1

Notes:

Λ

- 1.
- Size: 2.5" x 4.5" x 1.18" Mounting Hole: 55.88 x 106.68 (mm) 2
- 3
- Connectors: AC input : JST B2P3-VH or equivalent DC output : JST B6P-VH or B8P-VH or equivalent

(Output Pin as	signm	ent:		

PIN NO.	1	2	3	4	5	6	7	8
SNP-Z081	+12V	+12V	GND	GND	GND	+5V	+5V	-12V
SNP-Z083	+12V	+12V	GND	GND	GND	+5V	+5V	NC
SNP-Z08F	+24V	+24V	GND	GND	GND	+5V	+5V	+12V
SNP-Z086	GND	GND	GND	GND	+5V	+5V	+5V	+5V
SNP-Z087	GND	GND	GND	+12V	+12V	+12V	+5V	
SNP-Z087-1	GND	GND	GND	+12V	+12V	+12V	NC	
SNP-Z089	GND	GND	GND	+24V	+24V	+24V	+5V	
SNP-Z089-1	GND	GND	GND	+24V	+24V	+24V	NC	
SNP-Z08T	GND	GND	GND	+48V	+48V	+48V	NC	

Packing:

5.

Net weight: 235 g approx. / unit Gross weight: 16.5 kg approx. / carton, 60 units / carton Carton size (mm): 447 (L) x 300 (W) x 301 (H)

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



Output Specifications:

MODEL	OUTPUT	LOAD		VOLTAGE	RIPPLE	LINE	LOAD	EFFICIENCY		
NO.	RAIL	MIN.	RATED	MAX.	PEAK	ACCURACY	NOISE	REG.	REG	TYPICAL
	+5V	0A	6A	8A	15A	+4.9V~+5.1V	1%	±1%	±3%	
SNP-Z081	+12V -12V	0A 0A	4A 0.5A	6A	10A	+11.4V~+12.6V -11.4V~-12.6V	1% 1%	±1% ±1%	±3% ±5%	84%
SNP-Z083	+5V	0A	6A	8A	15A	+4.9V~+5.1V	1%	±1%	±3%	84%
	+12V	0A	4A	6A	10A	+11.4V~+12.6V	1%	±1%	±3%	
	+5V	0A	6A	8A	15A	+4.9V~+5.1V	1%	±1%	±3%	
SNP-Z08F	+24V +12V	0A 0A	2A 0.5A	3A	5A	+22.8V~+25.2V +11.4V~+12.6V	1% 1%	±1% ±1%	±3% ±5%	85%
SNP-Z086	+5V	0A	15A			+4.95V~+5.05V	1%	±1%	±1%	81%
SNP-Z087	+12V +5V	0A 0A	6.5A 0.5A		11A	+11.88V~+12.12V +4.75V~+5.25V	1% 1%	±1% ±1%	±1% ±1%	82%
SNP-Z087-1	+12V	0A	7A		11A	+11.88V~+12.12V	1%	±1%	±1%	83%
SNP-Z089	+24V +5V	0A 0A	3.6A 0.5A		5.6A	+23.75V~+24.24V +4.75V~+5.25V	1% 1%	±1% ±1%	±1% ±1%	85%
SNP-Z089-1	+24V	0A	3.75A		5.6A	+23.75V~+24.24V	1%	±1%	±1%	86%
SNP-Z08T	+48V	0A	1.88A		2.8A	+47.6V~+48.4V	1%	±1%	±1%	87%

Note:

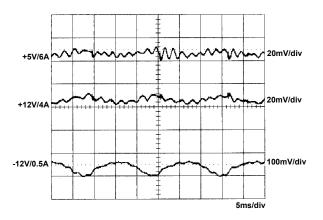
- 1. At peak load, the output can last for 8 seconds without shut down.
- 2. At factory, all outputs in 60% rated load condition, each output is checked to be within the accuracy range while the main output is setting to within the specified accuracy range at rated load.
- 3. Line regulation is defined by changing $\pm 10\%$ of input voltage from nominal line at rated load.
- 4. Load regulation is defined by changing ±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 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 drop down to regulation limit at rated load and nominal line.
- 7. The efficiency is measured at nominal line and rated load.
- 8. Model Selection:
 - SNP-Z08x is for both of ITE application and medical application. SNP-Z086 is for medical use only.

-Kevin-

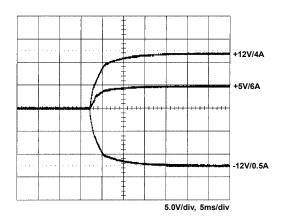


Performance for SNP-Z081:

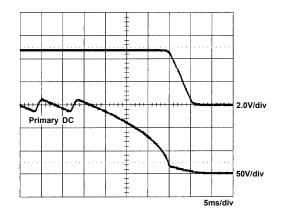
1. Switching frequency ripple



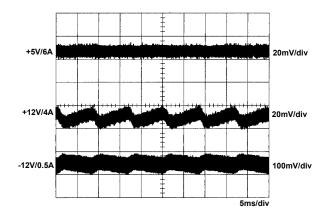
3. Output turn on wave form



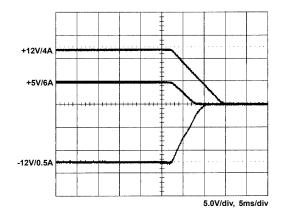
5. Hold-up time



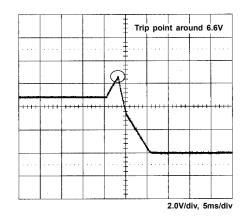
2. Line frequency ripple



4. Output turn off wave form



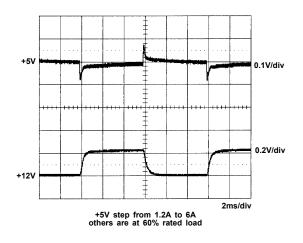
6. Over voltage protection



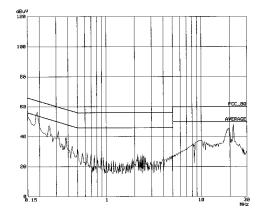
-Kevin-



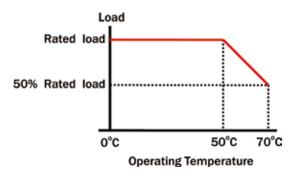
7. +5V step response



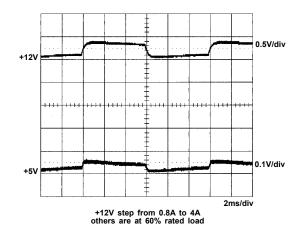
9. FCC B



11. Power derating curve



8. +12V step response



10. EN 55022 B

