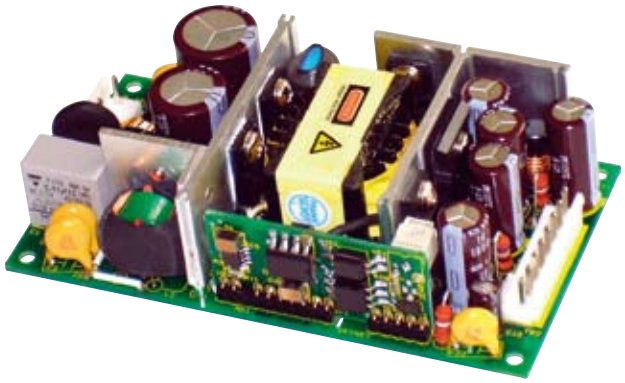
THE RELIABLE SOURCE

General Purpose

Rated 85W
Peak 135W
SNP-Z08 Series



2.5" x 4.5" x 1.18"

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:

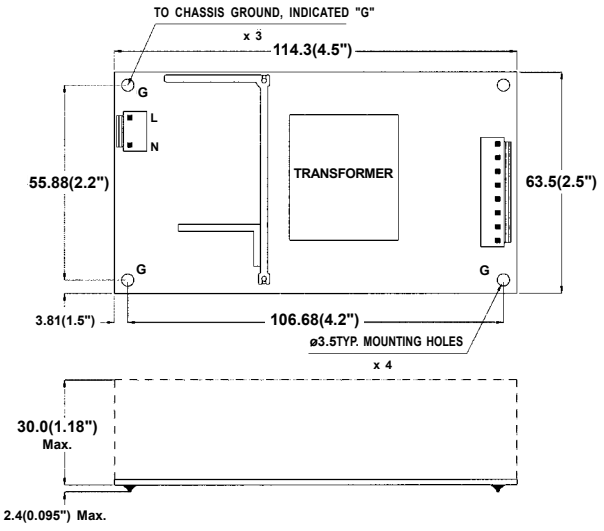
- For dental, laboratory products, pumps, monitors, sleep apnea devices and many other uses.

General Specifications:

Input voltage ..... 90VAC to 264VAC
Input frequency..... 47Hz to 63Hz
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 ..... 16ms 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°C to 70°C
derating: 2.5% / °C > 50°C
Cooling ..... free air convection
Storage temperature .....-40°C to +85°C
EMI ..... FCC "B"
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

Mechanical Specifications:



Notes:

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

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	

5. Packing:
   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)

-Kevin-

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

Output Specifications:

MODEL NO.	OUTPUT RAIL	LOAD MIN.	LOAD RATED	LOAD MAX.	LOAD PEAK	VOLTAGE ACCURACY	RIPPLE NOISE	LINE REG.	LOAD REG.	EFFICIENCY TYPICAL
SNP-Z081	+5V +12V -12V	0A 0A 0A	6A 4A 0.5A	8A 6A	15A 10A	+4.9V~+5.1V +11.4V~+12.6V -11.4V~-12.6V	1% 1% 1%	±1% ±1% ±1%	±3% ±3% ±5%	84%
SNP-Z083	+5V +12V	0A 0A	6A 4A	8A 6A	15A 10A	+4.9V~+5.1V +11.4V~+12.6V	1% 1%	±1% ±1%	±3% ±3%	84%
SNP-Z08F	+5V +24V +12V	0A 0A 0A	6A 2A 0.5A	8A 3A	15A 5A	+4.9V~+5.1V +22.8V~+25.2V +11.4V~+12.6V	1% 1% 1%	±1% ±1% ±1%	±3% ±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%

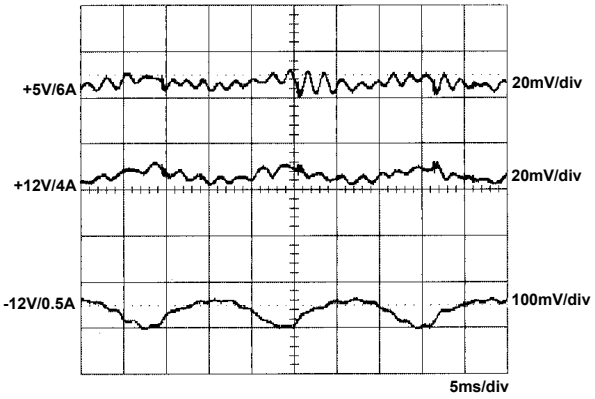
Note:

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 ±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.

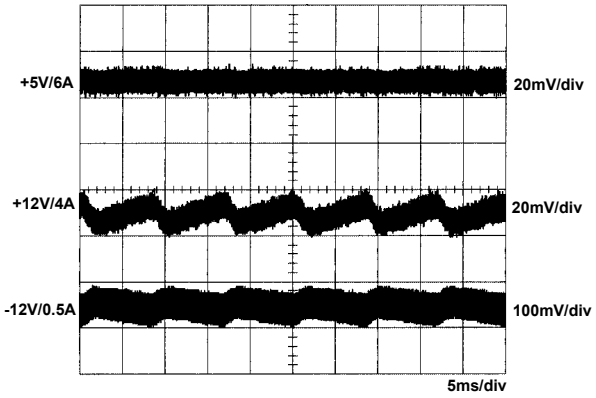
-Kevin-

Performance for SNP-Z081:

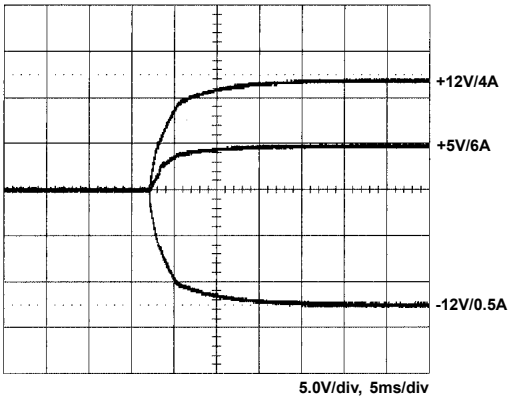
1. Switching frequency ripple



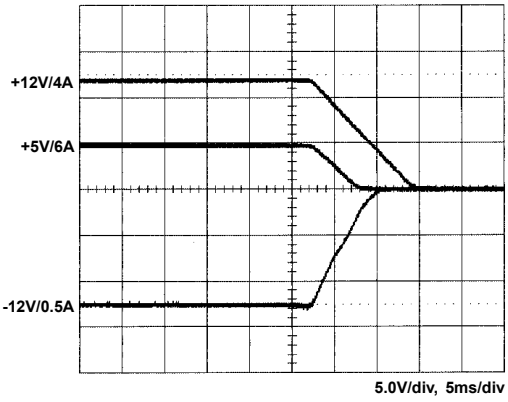
2. Line frequency ripple



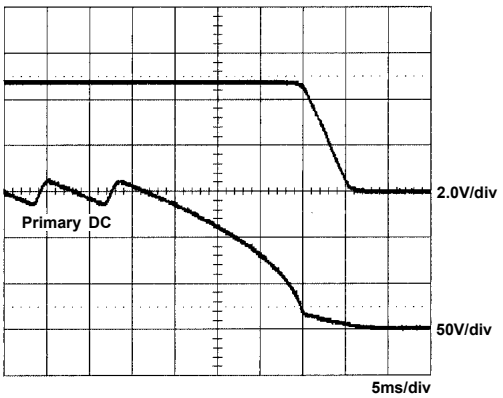
3. Output turn on wave form



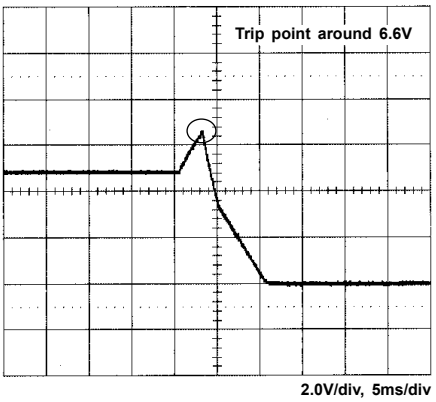
4. Output turn off wave form



5. Hold-up time

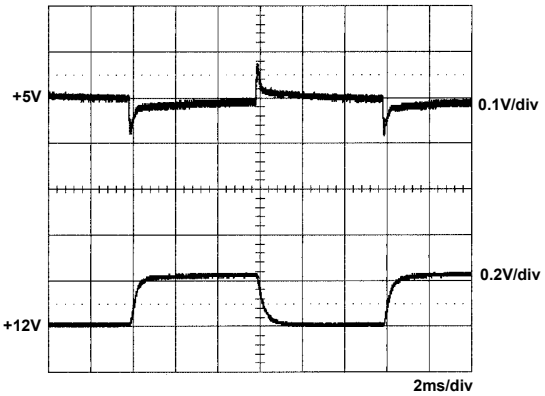


6. Over voltage protection



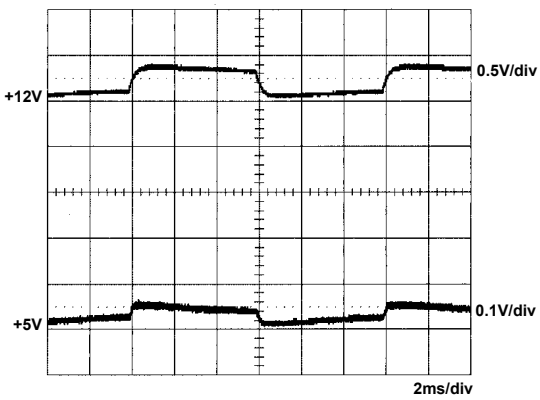
-Kevin-

7. +5V step response



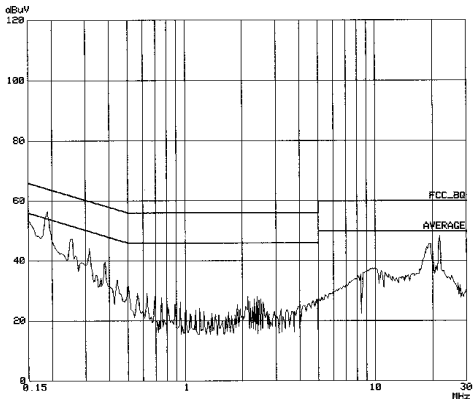
+5V step from 1.2A to 6A
others are at 60% rated load

8. +12V step response

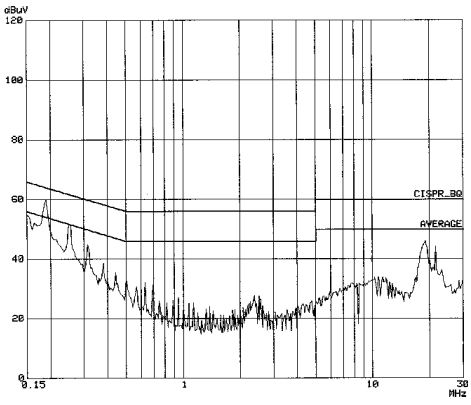


+12V step from 0.8A to 4A
others are at 60% rated load

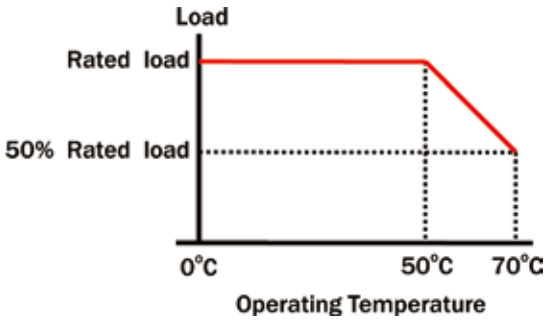
9. FCC B



10. EN 55022 B



11. Power derating curve



-Kevin-